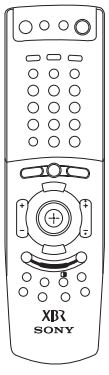
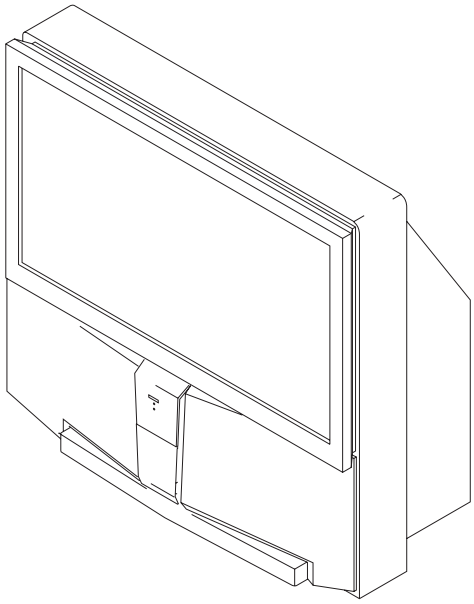
Self Diagnosis Supported model

SERVICE MANUAL RA-5A CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KDP-57XBR2	RM-Y185	US	SCC-P69B-A
KDP-57XBR2	RM-Y185	Canadian	SCC-P69B-A
KDP-65XBR2	RM-Y185	US	SCC-P69A-A
KDP-65XBR2	RM-Y185	Canadian	SCC-P69A-A



RM-Y185



DIGITAL HIGH DEFINITION PROJECTION TV

SONY®

SPECIFICATIONS

Projection System	3 picture tubes, 3 lenses, horizontal in-line system	
Picture Tube	7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system	
Projection Lenses	High performance, large diameter hybrid lens F1.05	
Antenna	75 ohm external terminal for VHF/UHF	
Television System	NTSC, American TV Standard, ATSC	
Channel Coverage		
DTV	2-69	
VHF	2-13	
UHF	14-69	
CATV	1-125	
Power Requirements	120V AC, 60 Hz	
Number of Inputs/Outputs		
Video (IN)	4 total (1 on front panel)	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	4 (1 on front panel)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p, (Burst signal), 75 ohms
Component Video Input	2 (Y, P_B, P_R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative P_B: 0.7 Vp-p, 75 ohms P_R: 0.7 Vp-p, 75 ohms
Audio (IN)	6 total (1 on front panel)	500 mVrms (100% modulation) Impedance: 47 kilohm
Audio (OUT)	1	More than 408 mVrms at the maximum volume setting (Variable) More than 408 mVrms (Fixed) Impedance (output): 2 kilohms
Subwoofer (Out)	1	More than 408 mVrms at the maximum volume setting Impedance (output): 2 kilohms Cutoff frequency: 100 Hz
SELECT OUT	1 Video 1 Audio	1 Vp-p, 75 ohms unbalanced, sync negative More than 408 mVrms (100% modulation) Impedance (output): 2 kilohms
Digital Audio Optical Output Dolby Digital/PCM	1	Optical Rectangular (1)
CONTROL S (IN/OUT)	1	
i.LINK S200	2	4-pin S200 i.LINK terminal (2)
Supplied Accessories		
Remote Control	RM-Y185	
AA (R6) Batteries	2 supplied for remote control	
Optional Accessories		
AV Cable	VMC-810/820/830 HG	
Audio Cable	RKC-515HG	
i.LINK Cable	VMC-IL4415 (4-pin to 4-pin, 1.5 meters), VMC-IL4435 (4-pin to 4-pin, 3.5 meters)	
Component Video Cable	VMC-10/30 HG	
Rear Speakers	SS-MB115	
Screen Size	57 in measured diagonally (KDP-57XBR2) 65 in measured diagonally (KDP-65XBR2)	
Speakers	Tweeter	100 mm (4") × 2
	Woofer	160 mm (6 3/8") × 2
	Center	100 mm (4") × 2
Speaker Output	Front	20 W × 2
	Center	20 W × 1
	Rear	20 W × 2
Dimensions (W × H × D)	1380 × 1400 × 680 mm (54 3/8 × 55 1/8 × 26 7/8 in) (KDP-57XBR2) 1558 × 1574 × 735 mm (61 3/8 × 62 × 29) (KDP-65XBR2)	
Mass	126 kg (277 lbs) (KDP-57XBR2) 148 kg (326 lbs) (KDP-65XBR2)	
Power Consumption		
In Use	280 W	
In Standby	0.9 W	
In i.LINK Standby	24 W	

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

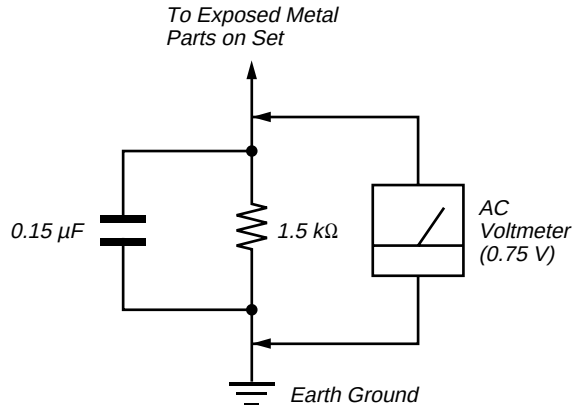


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60 – 100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

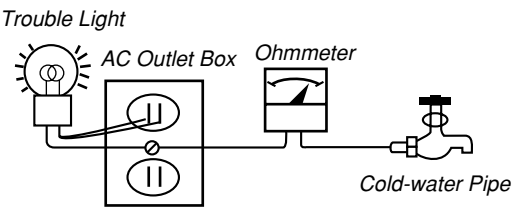


Fig. B. Checking for earth ground.

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WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1
SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the STANDBY/i. LINK STANDBY indicator automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the STANDBY/i. LINK STANDBY indicator.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

2. Diagnosis Items and Prediction of Malfunction Location

- When a malfunction occurs the STANDBY/i. LINK STANDBY indicator only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display " 0 " means that no malfunctions occurred.

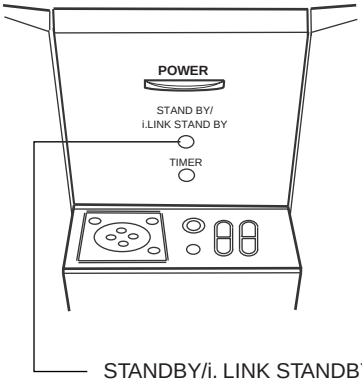
Diagnosis Item	No. of times STANDBY / i. STANDBY indicator blinks	Probable Cause Location	Deteced symptoms
Power does not turn on	0	• Power cord is not plugged in. • Fuse is burned out (F6001) (G board)	• Power does not come on. • No power is supplied to the unit. • AC power supply is faulty.
+B overcurrent (OCP) (See Note 1)	2 times	• H. OUT (Q8024) is shorted. (D board) • +B PWM (Q8035, 8038) is shorted. (D board)	• Power does not come on. • Load on power line is shorted.
+B overvoltage (OVP)	3 times	• IC6104 is faulty (G board) • PH6002 is faulty (G board)	• Has entered standby mode.
Vertical deflection stopped	4 times	• ±15 V is not supplied. (D board) • IC8003 is faulty. (D board)	• Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
White balance failure (Not balanced)	5 times	• Video out (IC3701, 3801, 3901) is faulty. (CR, CG, CB board) • CRT drive (IC3006) is faulty. (A board) • G2 is improperly adjusted. (See Note 2)	• No raster is generated. • CRT cathode current detection reference pulse output is small.
LOW +B OCP/OVP (Overcurrent/over voltage) (See Note 3)	6 times	• LOW +B line is overloaded. (A, B boards) • LOW +B line is shorted. (A, B boards)	• No picture
Horizontal deflection stopped	7 times	• Q8035, 8038 is shorted. (D board)	

Note1: If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The sympton that is diagnosed first by the microcontroller is displayed on screen.
Note 2: Refer to Screen (G2) Adjustment in Section 3-1, 2 of this manual.
Note 3: If STANDBY/i. LINK STANDBY indicator blinks six (6) times, unplug the unit and wait 10 minutes before performing the adjustment.

3. Blinking count display of STANDBY / i. LINK STANDBY indicator

* One blink is not used for self-diagnosis.

< FRONT PANEL >

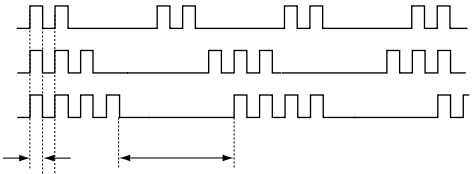


STANDBY/i. LINK STANDBY indicator

•EXAMPLE

<Diagnosis Items> <Number of Blinks>

- +B overcurrent 2 times
- +B overvoltage 3 times
- Vertical deflection stop 4 times



Lamp ON : 0.3 seconds
Lamp OFF : 0.3 seconds
Lamp OFF : 3.0 seconds

Release of STANDBY/i. LINK STANDBY indicator blinking.

- The STANDBY/i. LINK STANDBY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

<Screen Display Method>

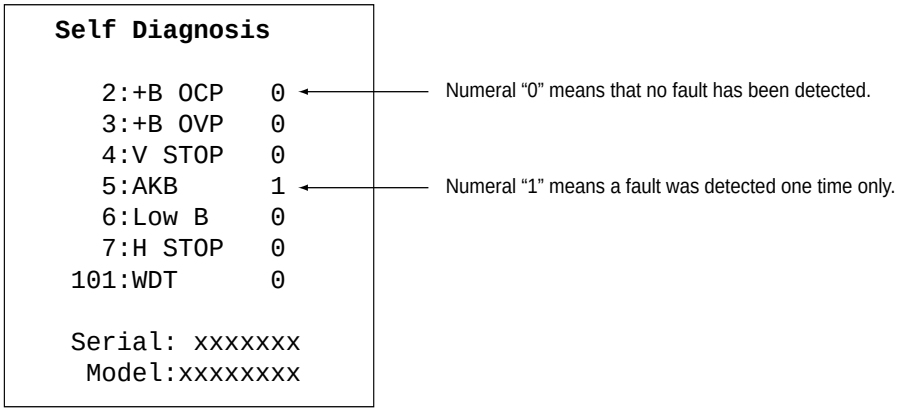
- Quickly press the remote command button in the following order from the standby state.

DISPLAY ➡ Channel 5 ➡ VOL – ➡ POWER

⇧

Be aware that this differs from the method of entering the service mode (volume +).

Self-Diagnosis screen display



5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to “ 0 ”.
- If the results display is not returned to “ 0 ” it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

1. Power off (Set to the standby mode)
2. DISPLAY ➡ Channel 5 ➡ VOL + ➡ POWER (Service Mode)
3. Channel 8 ➡ ENTER (Test reset = Factory preset condition)

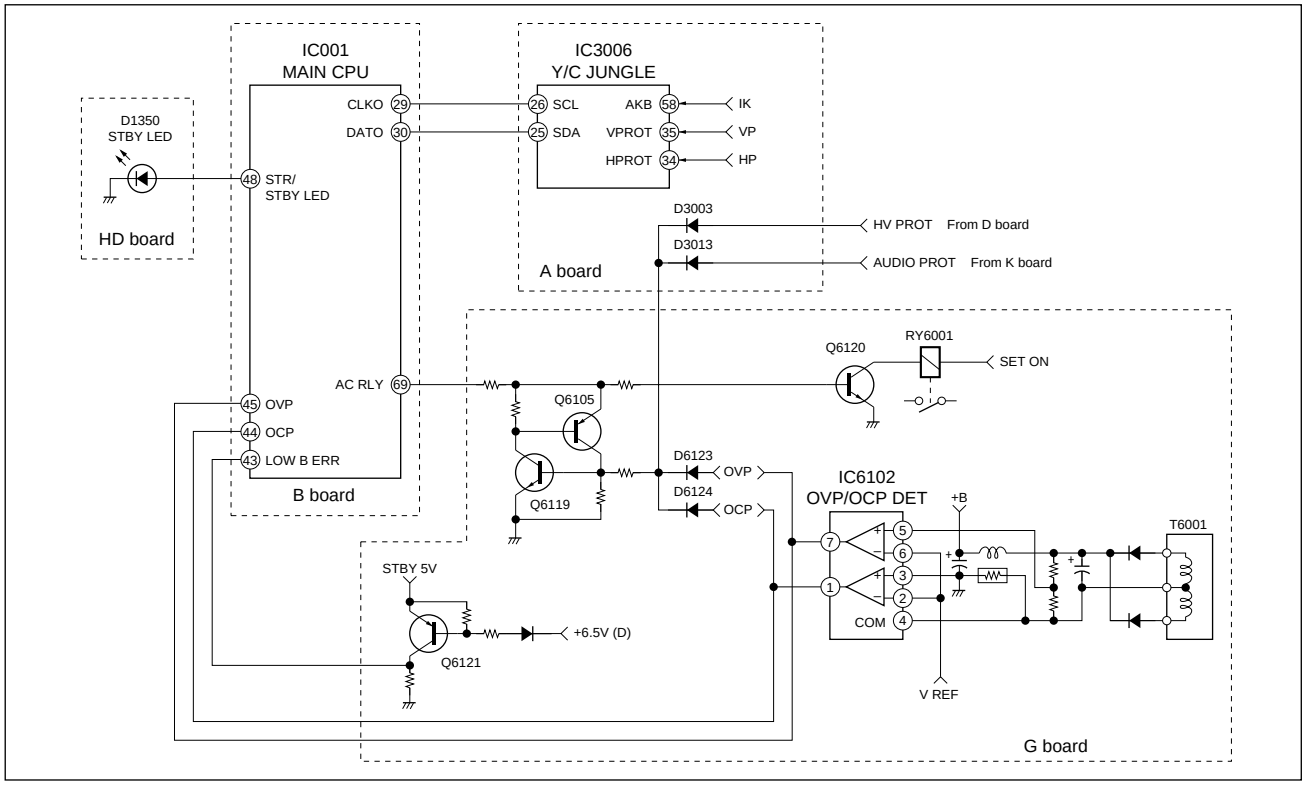
<Method of Ending Self Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

6. Self-diagnosis function operation

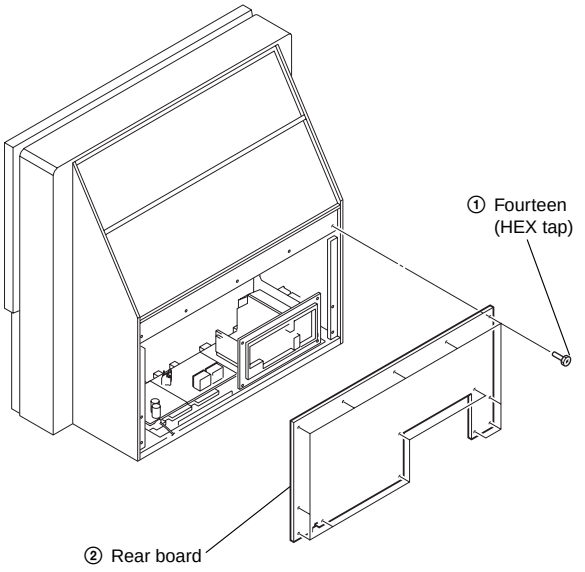
OCP	Low B and +B line detect DET SHORT, and shut-down POWER ON RELAY. Reset by turning power on/off. In case of +B is loaded approx. 1.5 A or more, microcomputer detects it via IC6102.
OVP	In case of +B becomes approx. 150 V or more, POWER ON RELAY shuts down and microcomputer detects it via IC6102. Reset by turning power on/off just the same as OCP.
Low B	Occurs when set +6.5 V (D) is out.
V Stop	In case of V DRIVE is disappeared, IC3006 detects it and shut-down POWER ON RELAY. Microcomputer detects it and makes LED blinking.
AKB	IK detection. Makes LED blinking in case of microcomputer doesn't detect IK returns of IC3006 (CXA2150AQ) 20 seconds or more.
H Stop	In case of H DRIVE is disappeared, IC3006 detects it and shut-down POWER ON RELAY. Microcomputer receives H Stop data from IC3006 and makes LED blinking.

Self-diagnosis block diagram

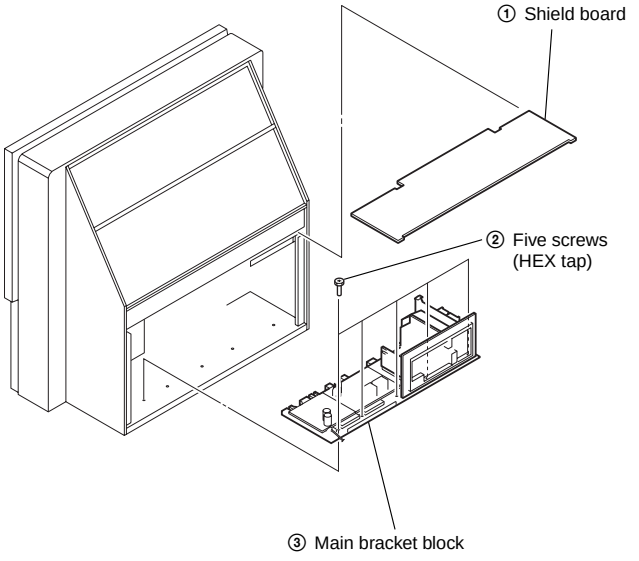


SECTION 2
DISASSEMBLY

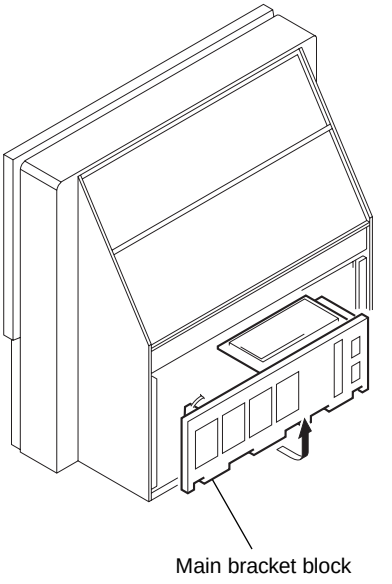
2-1. REAR BOARD REMOVAL



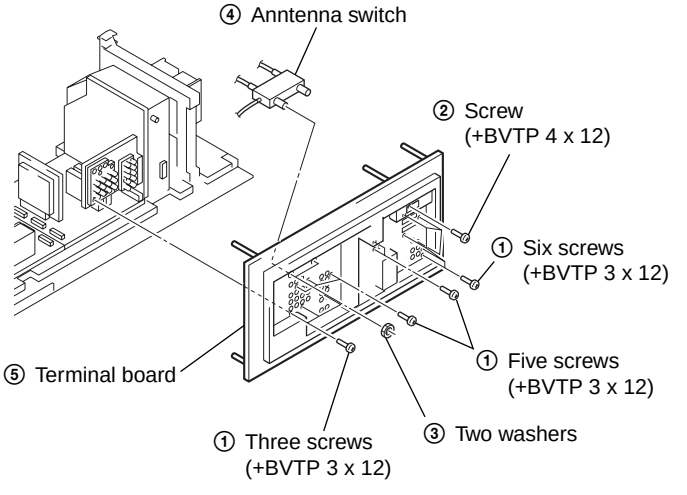
2-2. MAIN BRACKET BLOCK REMOVAL



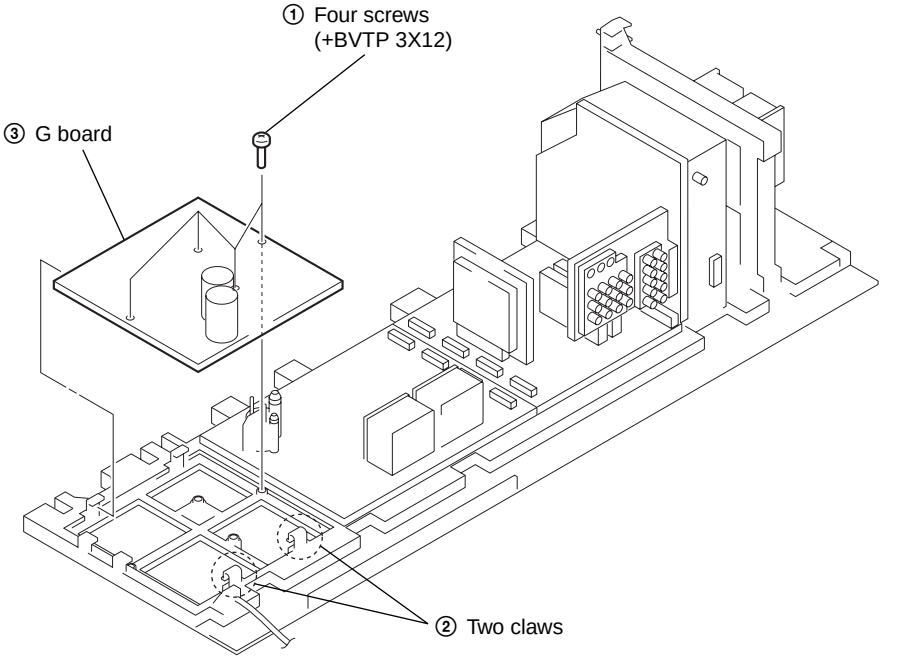
2-3. SERVICE POSITION



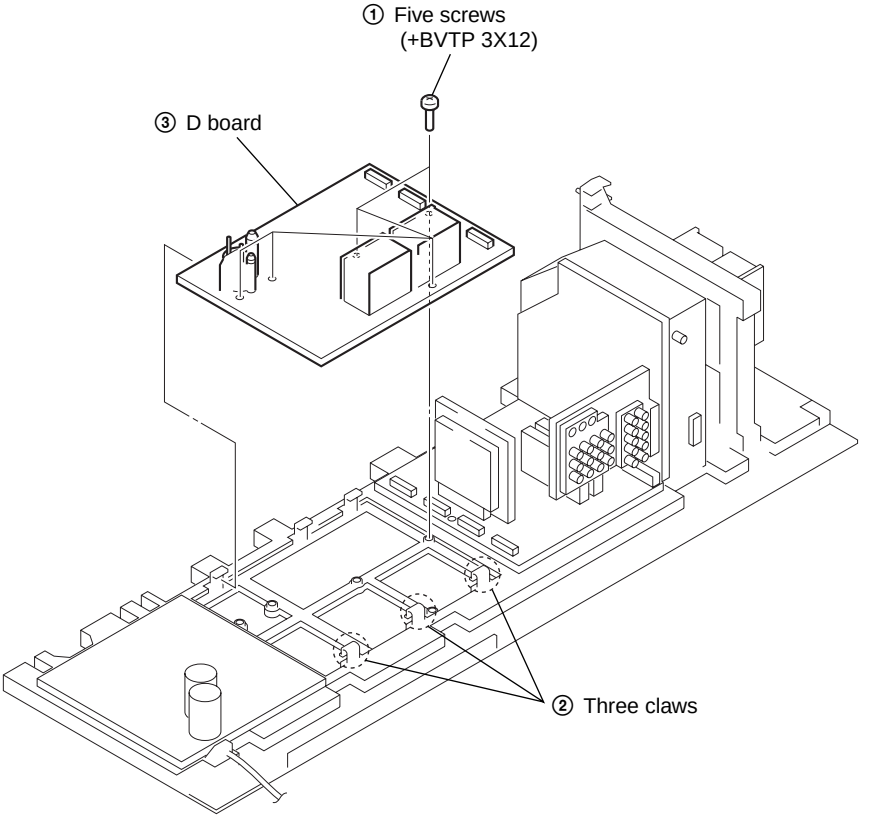
2-4. TERMINAL BOARD REMOVAL



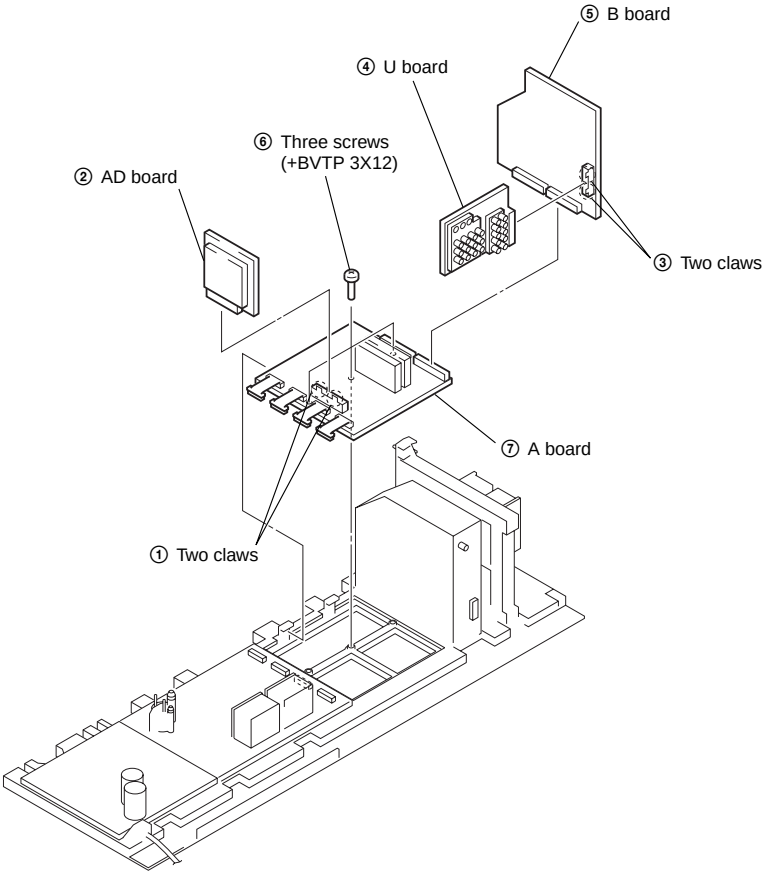
2-5. G BOARD REMOVAL



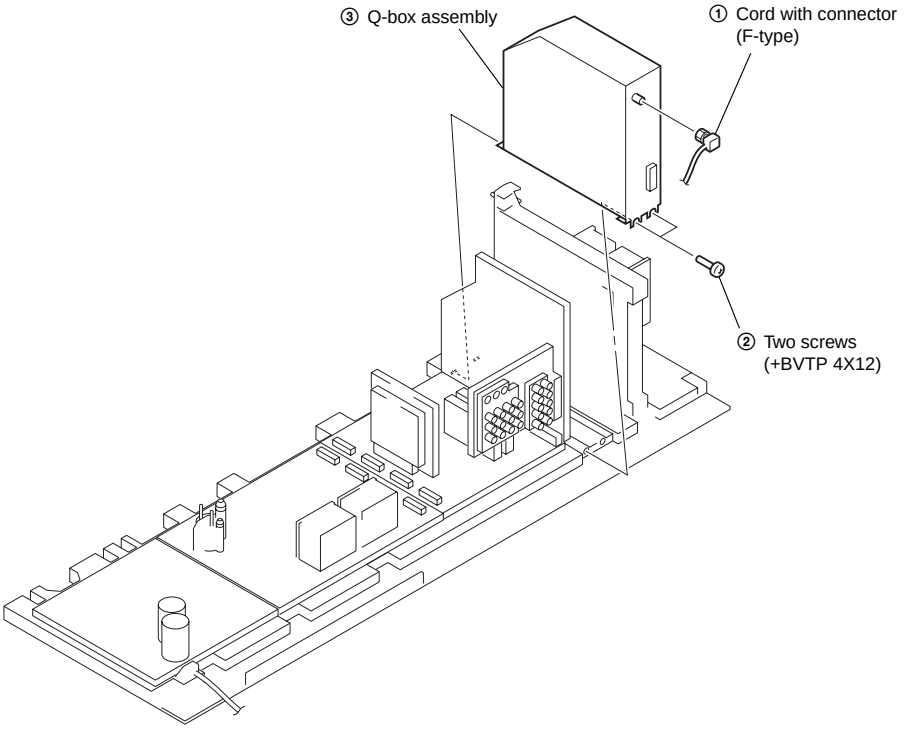
2-6. D BOARD REMOVAL



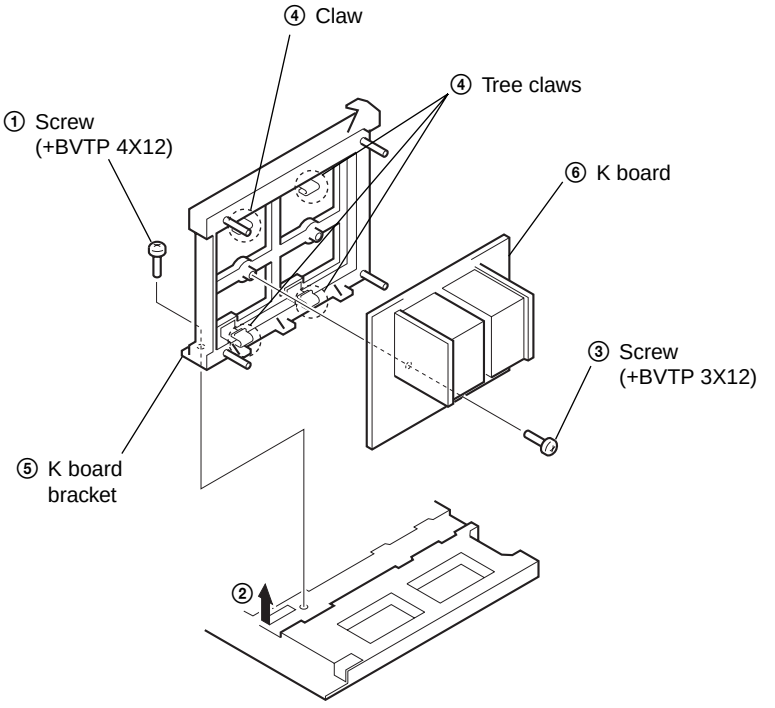
2-7. AD, U, B, AND A BOARDS REMOVAL



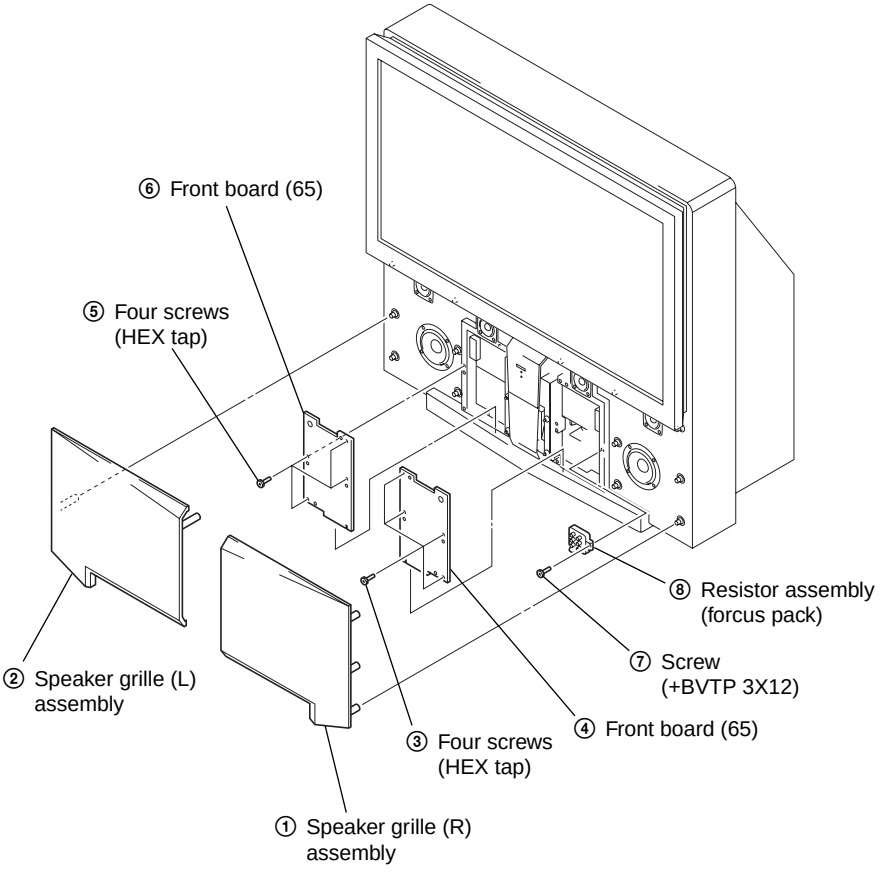
2-8. Q-BOX ASSEMBLY REMOVAL



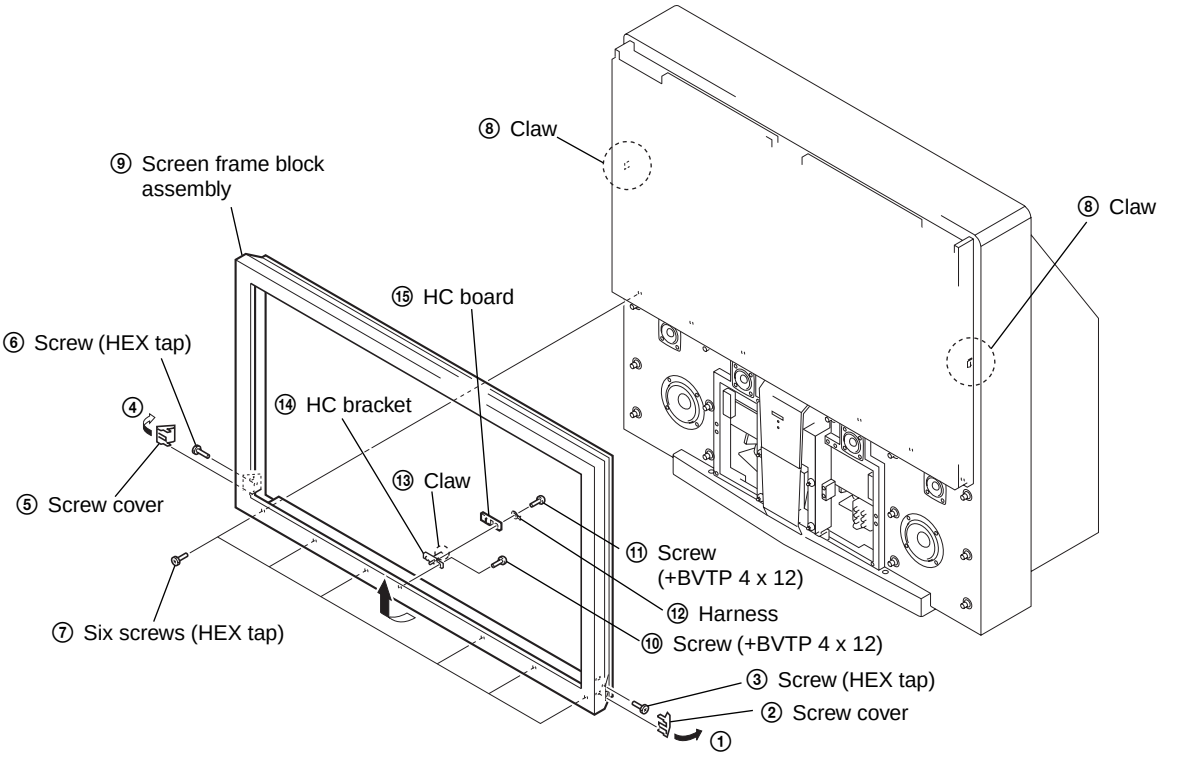
2-9. K BOARD REMOVAL



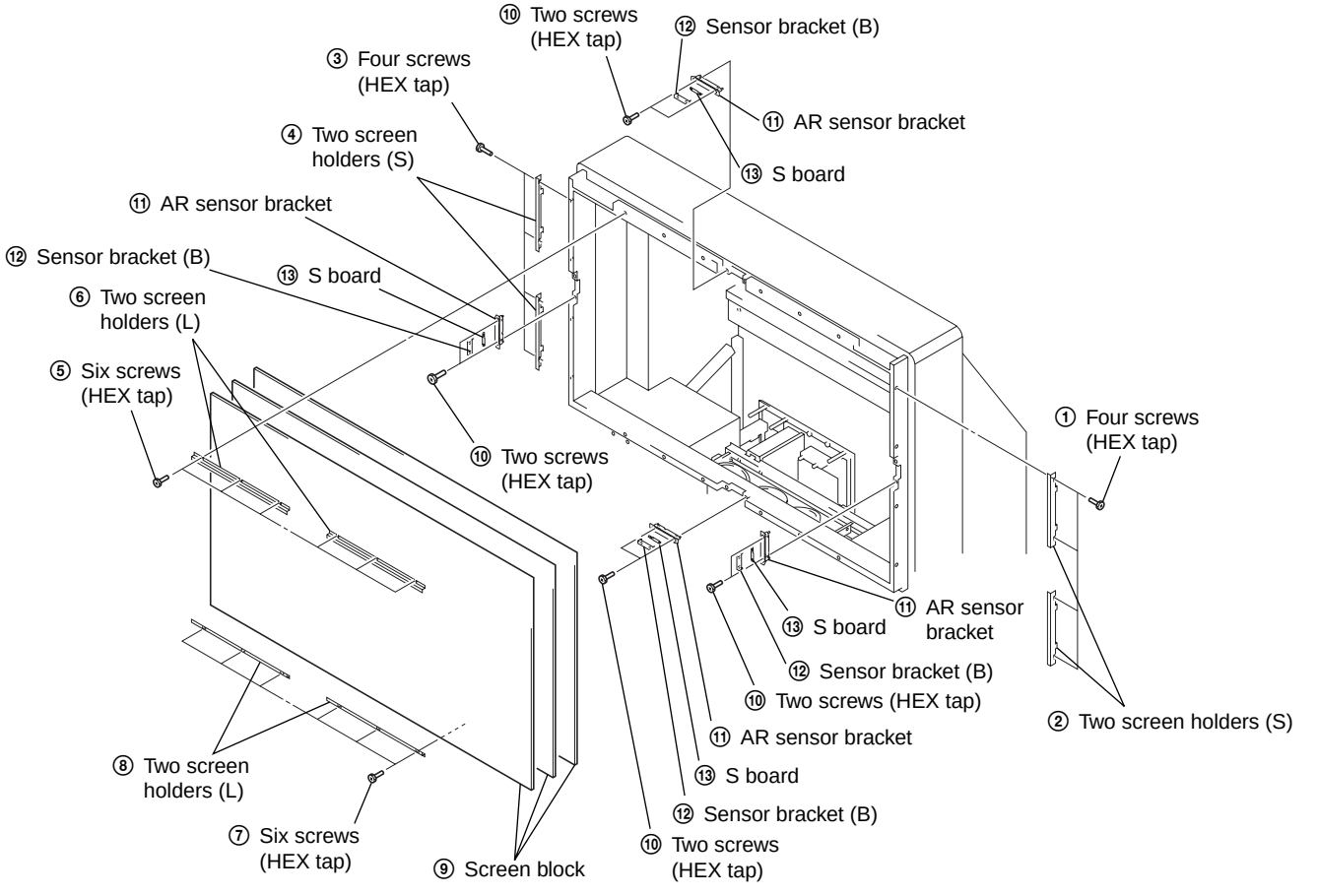
2-10. RESISTOR ASSEMBLY (FOCUS PACK) REMOVAL



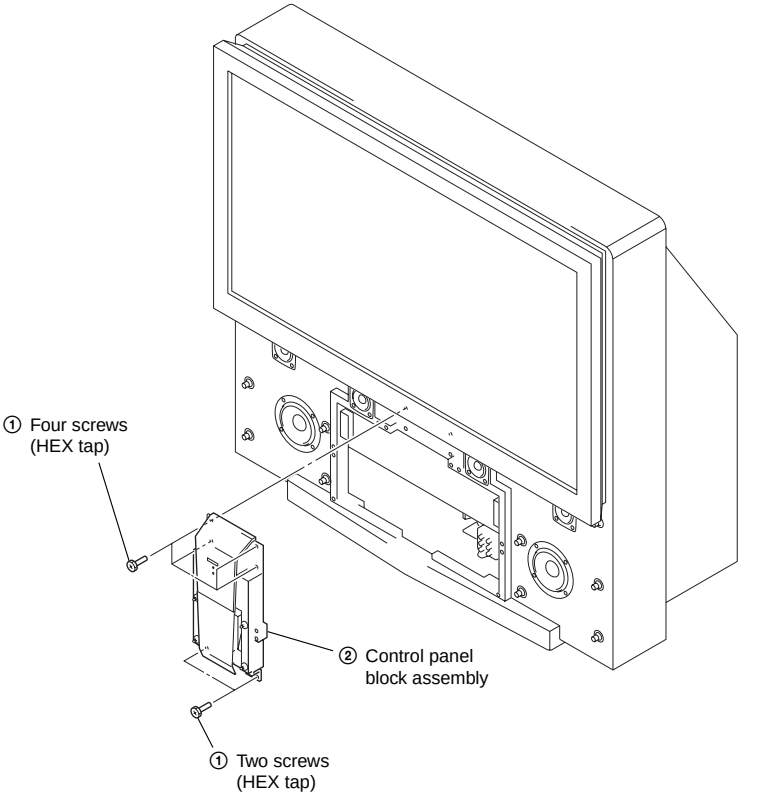
2-11. SCREEN FRAME BLOCK ASSEMBLY



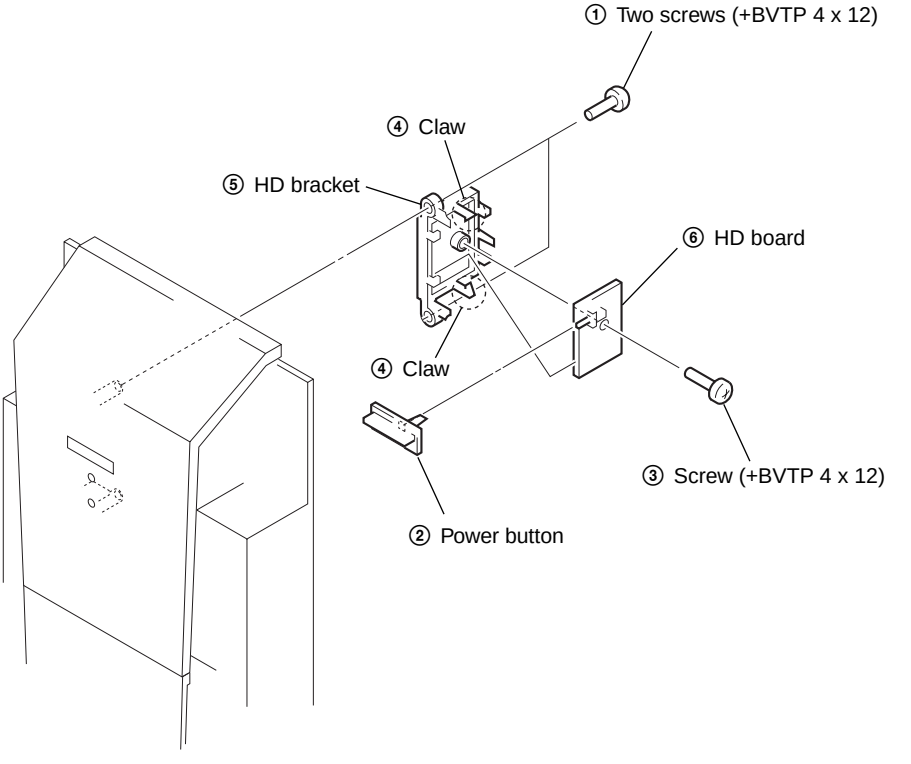
2-12. S BOARD REMOVAL



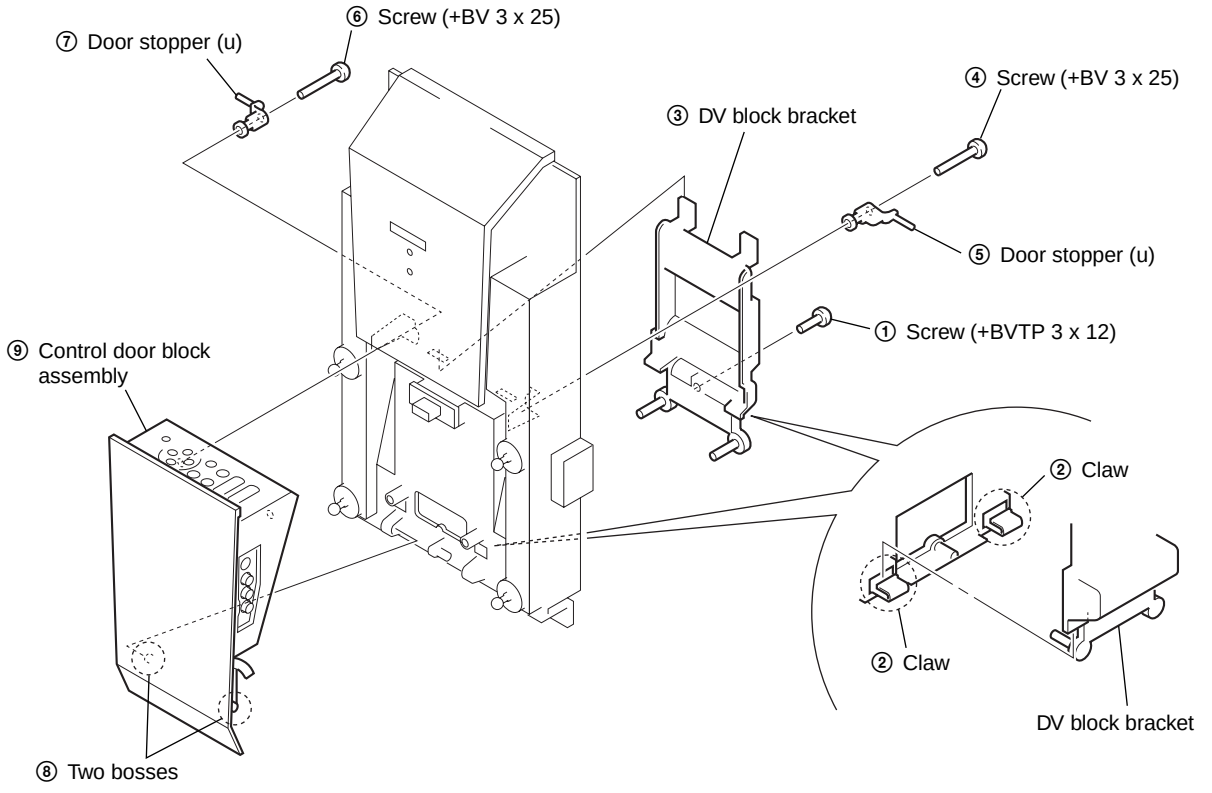
2-13. CONTROL PANEL BLOCK ASSEMBLY



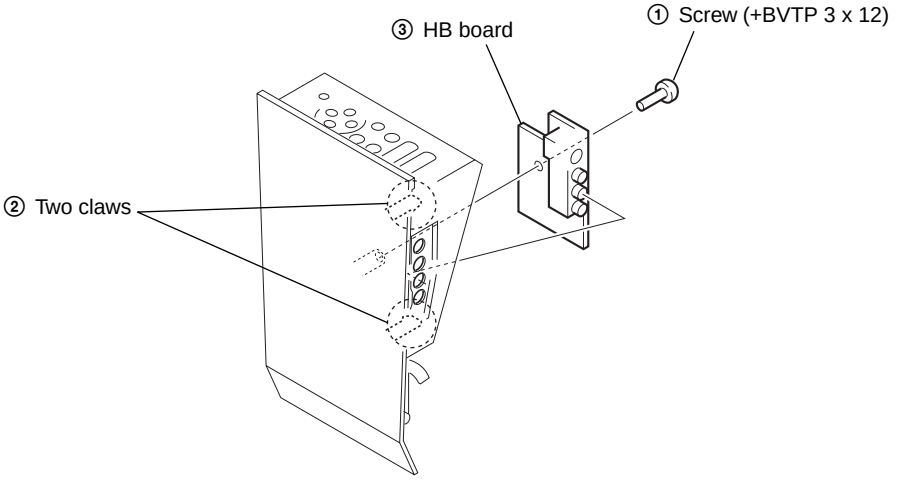
2-14. HD BOARD REMOVAL



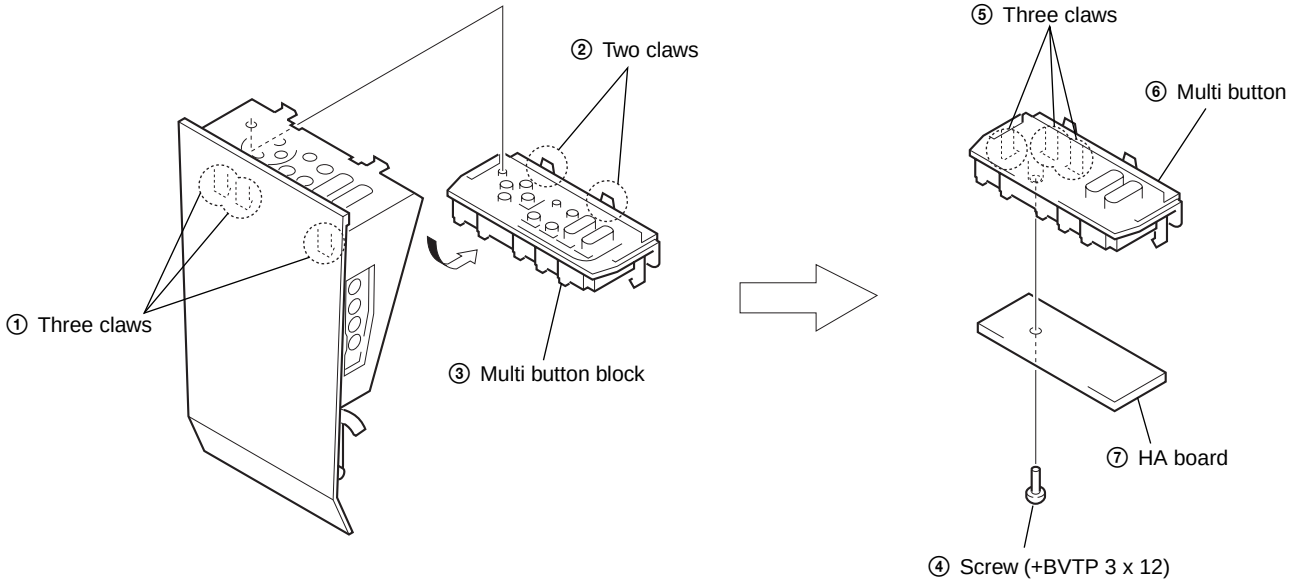
2-15. CONTROL DOOR BLOCK ASSEMBLY



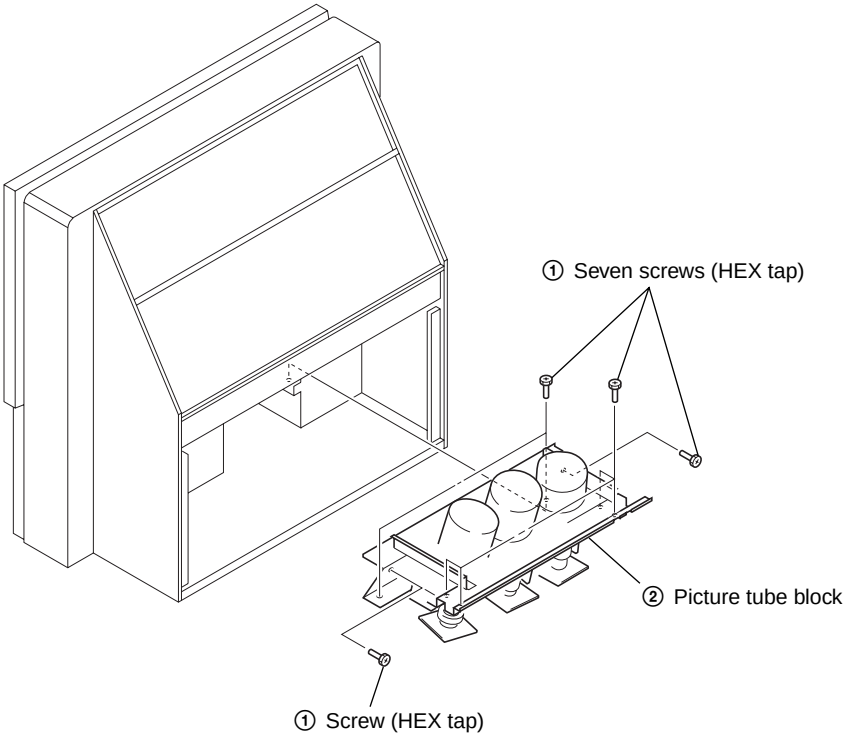
2-16. HB BOARD REMOVAL



2-17. HA BOARD REMOVAL

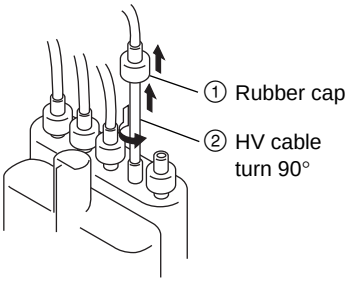


2-18. PICTURE TUBE BLOCK REMOVAL

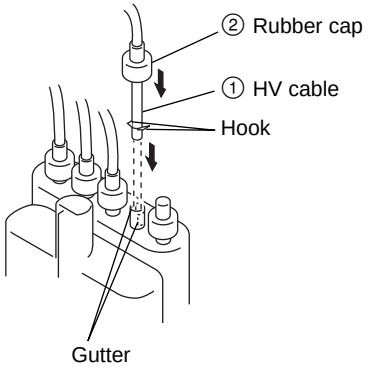


2-19. HIGH-VOLTAGE CABLE REMOVAL AND INSTALLATION

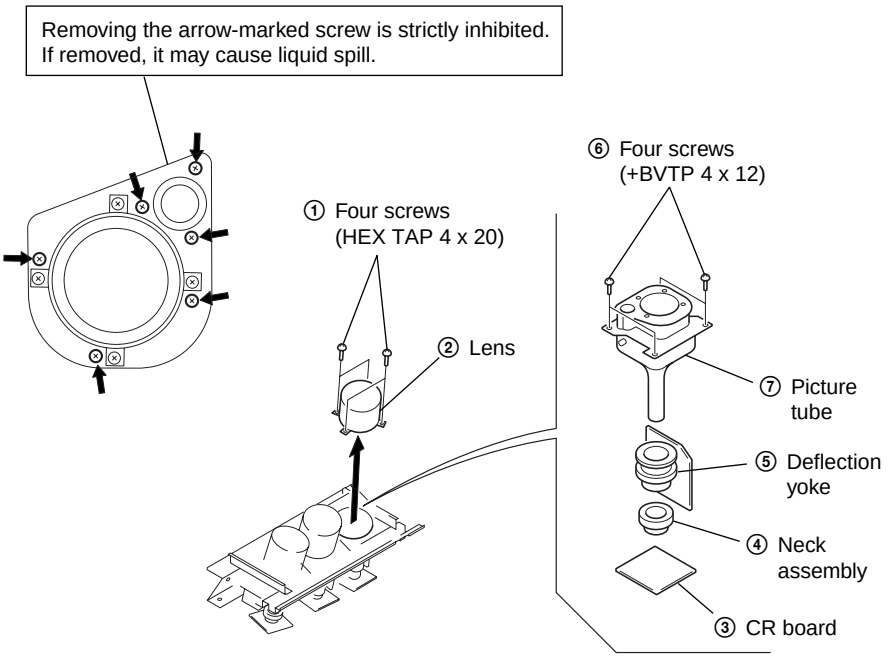
(1) Removal



(2) Installation



2-20. PICTURE TUBE REMOVAL



SECTION 3
SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the focus pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

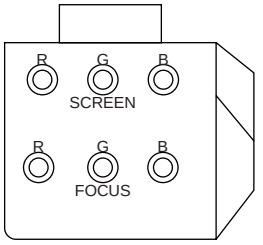


Fig. 3-1

3-2. SCREEN (G2) ADJUSTMENT

Fine Mode is recommended to set screen controls to their optimal condition. It is necessary to build the simple jig, illustrated below, using 3-watt resistors. Please note, that if the proper voltage is not obtained with their listed values, resistors, then please increase or decrease one of the values in the resistor network to obtain the correct voltage.

1. Select VIDEO1 mode without signals.
2. Connect G2 JIG to TP3802 (200V) of CG board and GND.
3. SW on JIG.
4. Connect an oscilloscope to the SG3701(KR), SG3801(KG) and SG3901(KB) of CR board, CG board and CB board.
5. Adjust R, G and B screen voltage to 175 ± 1V with screen VR on the focus pack.

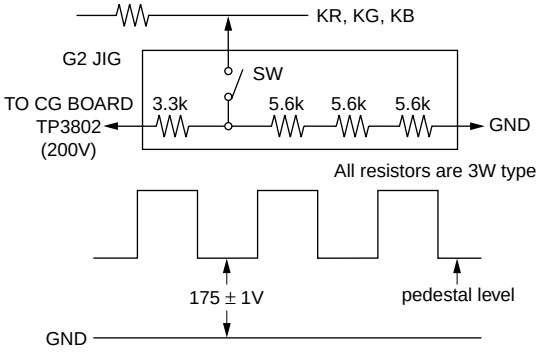


Fig. 3-2

3-3. DEFLECTION YOKE TILT ADJUSTMENT

1. Connect the color bar generator monoscope pattern to VIDEO1 input.
2. Cover the both red and blue picture lenses with the lens caps to show only the green color.
3. Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red is aligned in the mode Cover the both green and blue picture lenses with the lens caps and the tilt of the deflection yoke for blue is aligned with in the mode Cover the both green and red picture lenses with the lens caps is aligned the same as was done for green.

Note: Instead of items 2 and 5, you can cut off the unnecessary color beams by controlling the service mode “1 RGBS” of “2150P-2”.

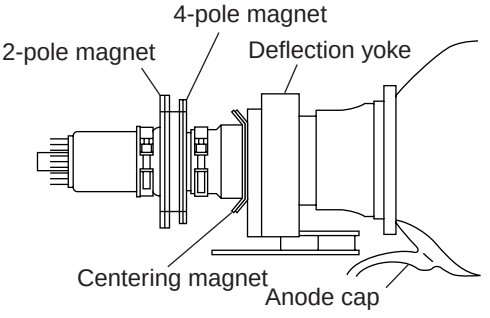


Fig. 3-3

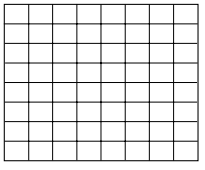
3-4. FOCUS LENS ADJUSTMENT

In this adjustment, use the remote commander in the service mode. For details of the usage of the service mode and the remote commander, please refer the item 3-10. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER.

1. Loosen the lens screw.
2. Cover the both red and blue picture lenses with the lens caps to show only the green color.
3. Turn the green lens to adjust to the optimum focus point with the crosshatch signal.
4. Tighten the lens screw.
5. Cover the both green and blue picture lenses with the lens caps to show only the red color.
6. Adjust red CRT lens just the same as green.
7. Cover the both green and red picture lenses with the lens caps to show only the blue color.
8. Adjust blue CRT lens just the same as green.
9. After adjusting the items 3-5. FOCUS VR ADJUSTMENT, 3-6. 2-POLE MAGNET ADJUSTMENT, 3-7. CENTER MAGNET ADJUSTMENT and 3-8. 4-POLE MAGNET ADJUSTMENT, adjust again to the optimum focus point.

Note: Instead of items 2, 5 and 7, you can cut off the unnecessary color beams by controlling the service mode "1 RGBS" of "2150P-2".

*: Every time you press 6, the test signal changes to "crosshatch+video signal" - "crossbatch+borderline(black)" - "crosshach(black)" - "dots(black)" - off.



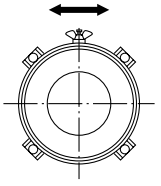
Test signal

Fig. 3-4

3-5. FOCUS VR ADJUSTMENT

1. Set generator to crosshatch.
2. Cover the both red and blue picture lenses with the lens caps to show only the green color.
3. Turn the green focus VR on the focus pack to adjust to the optimum focus point with the crosshatch signal.
4. Cover the both green and blue picture lenses with the lens caps to show only the red color.
5. Turn the red focus VR on the focus pack to adjust to the optimum focus point with the crosshatch signal.
6. Cover the both green and red picture lenses with the lens caps to show only the blue color.
7. Turn the blue focus VR on the focus pack to adjust to the optimum focus point with the crosshatch signal.
8. After adjusting the items 3-4. FOCUS LENS ADJUSTMENT, 3-6. 2-POLE MAGNET ADJUSTMENT, 3-7. CENTER MAGNET ADJUSTMENT and 3-8. 4-POLE MAGNET ADJUSTMENT, adjust again to the optimum focus point.

Note: Instead of items 2, 4 and 6, you can cut off the unnecessary color beams by controlling the service mode "1 RGBS" of "2150P-2".



Lens

Fig. 3-5

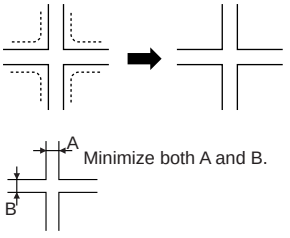


Fig. 3-6

3-6. 2-POLE MAGNET ADJUSTMENT

1. Set the picture mode to"Pro" and picture to MAX.
2. Receive the dot signal.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Turn the green focus VR on the focus pack to the left and set to overfocus to enlarge the spot.
5. Adjust 2-pole magnet so that the bright spot should be centered.
6. Align the green focus VR and set for just (precise) focus.
7. Perform the same alignment for red and blue.

Note: Instead of item 2 you can cut off the unnecessary color beams by controlling the service mode "1 RGBS" of "2150P-2".

Use the center dot

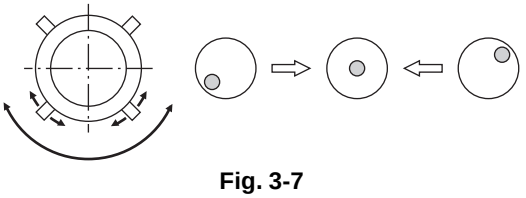


Fig. 3-7

3-7. CENTERING MAGNET ADJUSTMENT

1. Set the picture mode to “Pro”.
2. Receive the monoscope signal.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Adjust the green centering magnet to put the center of the monoscope signal to the center of the screen.
5. Adjust the red centering magnet in the same way.
6. Adjust the blue centering magnet in the same way.

Note: Instead of item 2 you can cut off the unnecessary color beams by controlling the service mode “1 RGBS” of “2150P-2”.

3-8. 4-POLE MAGNET ADJUSTMENT

1. Set the picture mode to“Pro” and picture to MAX.
2. Receive the dot signal.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Turn the green focus VR on the focus pack to the right and set the spot will become smaller.
5. Adjust the 4-Pole Magnet so that the spot becomes round for green and red.
6. Adjust blue spot to an oval shape. x : y = 1 : 1.2

Note: Instead of item 2 you can cut off the unnecessary color beams by controlling the service mode “1 RGBS” of “2150P-2”.

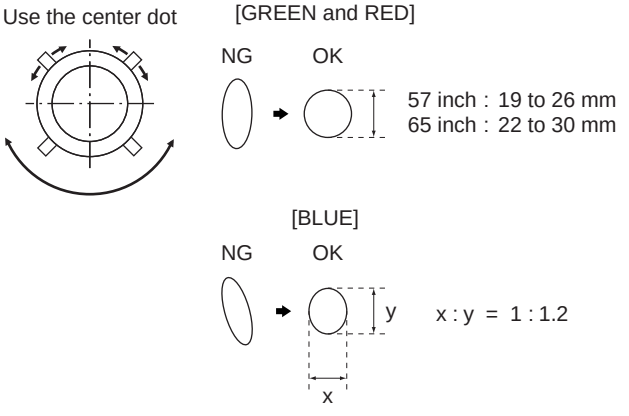


Fig. 3-8

3-9. DEFOCUS ADJUSTMENT (BLUE)

Note: Please adjust the blue dot to be slightly larger than red and green dots. This adjustment provides a more pleasing picture to the customer.

1. Select the picture mode to “Pro”.
2. Receive the dot signal.
3. Cover the both red md green picture lenses with the lens caps to show only the blue color.
4. Turn the blue focus VR on the focus pack to right to make the round dot elipical.
5. Check flare with high luminace signal, make sure flare is minimal while dot shape is elipical.
6. Set generdtor to all white signal and check uniformity.

Note: Instead of item 3 you can cut off the unnecessary color beams by controlling the service mode “1 RGBS” of “2150P-2”.

3-10. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using remote commander (RM-Y185), all circuit adjustments can be made.

NOTE : Test Equipment Required.

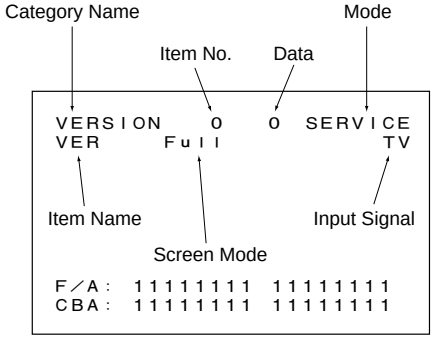
1. Pattern Generator (with component outputs)
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

1. Method of Setting the Service Adjustment Mode

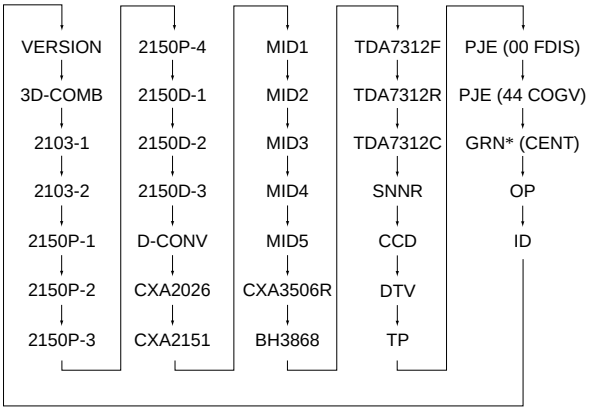
SERVICE MODE PROCEDURE

1. Standby mode. (Power off)
2. DISPLAY → 5 → VOL (+) → TV POWER
   on the remote commander.
   (Press each button within a second.)

SERVICE MODE ADJUSTMENT



3. The SCREEN displays the item being adjusted.
4. Press "①" or "④" on the remote commander to select the adjustment item.
5. Press "③" or "⑥" on the remote commander to change the data.
6. Press "②" or "⑤" on the remote commander to select the category. Every time you press "②" (Category up), Service mode changes in the order as shown below.



* : GRN , RED or BLU

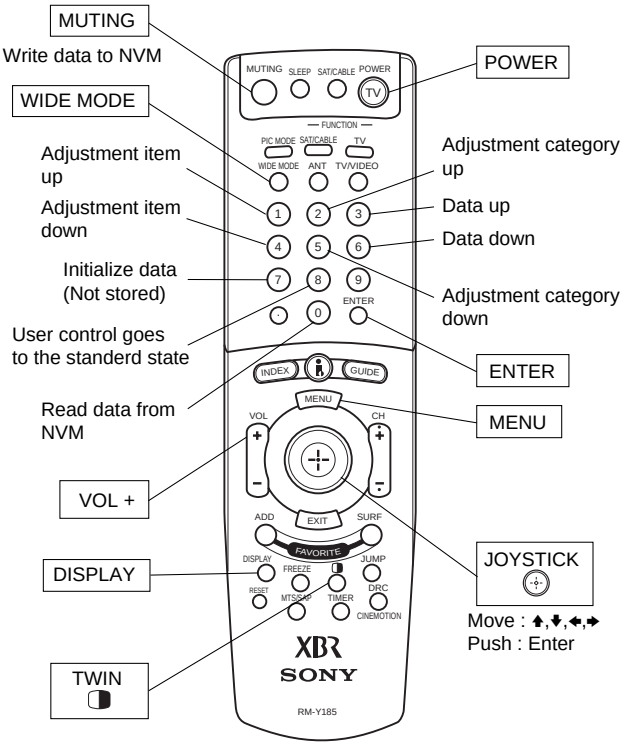
7. If you want to recover the latest values press "⓪" then "ENTER" to read the memory.
8. Press "MUTING" then "ENTER" to write into memory.
9. Turn power off.

Note: Press "⑧" then "ENTER" on the remote commander to initialize or turn set off and on to exit.

2. Memory Write Confirmation Method

1. After adjustment, turn power off with the remote commander.
2. Turn power on and set to service mode.
3. Call the adjusted items again and confirm they were adjusted.

3. Adjusting Buttons and Indicator



RM-Y185

Note : When the PJE mode is activated, which displays an internally generated signal, several buttons on the remote commander will have different functions than listed above. Therefore, when in the PJE mode, refer to page 41 for button functions.

4. Service Mode List

Note: • shaded items are fixed. There is no need to change data. Others are different a little in the sets individually. Basically, there is no need to change data, too.

3D-COMB

3D Comb Filter (μPD64082)

Item No.	Item Name	Function											
			Common										
0	NRMD	Noise reduction mode [0: YCS, 1: YCS+, 2: MNNR, 3: YCNR]	0										
1	YAPS	Y aperture/peaking [0: OFF, 1: A-ON, 2: D-ON, 3: A/D-ON]	3										
		Depends on NRMD data	NRMD (0)	NRMD (1)	NRMD (2)	NRMD (3)							
2	CLKS	System CLK [0: Auto, 1: Forced-Burst, 2/3: Forced-H freq.]	1	1	1	1							
			Common										
3	NSDS	Signal [0: Auto, 1: F-ST, 2: F-nonST (H), 2/3: F-nonST(V)]	3										
4	MSS	Processing [0: Auto, 1: F-Inter Frame, 2/3: F-InterLine]	0										
5	KILS	Color Killer [0: Auto, 1: Port Cont., 2/3: F-Killer]	2										
		Depends on NRMD data	NRMD (0)	NRMD (1)	NRMD (2)	NRMD (3)							
6	CDL	Chroma delay time [0: –280 ns, 4: 0 ns, 7: +210 ns]	3	3	3	3							
7	DYCO	Y coring level [0: Coring 0, 15: Large amount of Coring]	2	2	2	2							
8	DYGA	Y coring gain [0: 0 gain, 15: Maximum gain]	11	11	11	11							
9	DCCO	C coring level [0: Coring 0, 15: Large amount of Coring]	4	4	4	4							
10	DCGA	C coring gain [0: 0 gain, 15: Maximum gain]	8	8	8	8							
			Common										
11	YNRL	YNR limit [0: YNR off (0LSB), 3: YNR 3LSB]	1										
12	CNRL	CNR limit [0: CNR off (0LSB), 3: CNR 3LSB]	1										
		Depends on Signal Input	RF	CV/YC	Video5/Video6								
13	VTRH	H hysteresis of nonST signal det. [0: Hys-off, 3: Hys-high]	1	1	1								
14	VTRR	H sensitivity of nonST signal det. [0: High, 3: Off]	1	1	1								
15	LDSR	Frame sensitivity of nonST signal det. [0: High, 3: Off]	2	2	2								
		Depends on Picture Pallete	Vivid	Standard	Movie	Game	Pro						
16	VAPG	Vertical aperture gain [0: Off, 7: Maximum]	0	0	0	0	0						
17	VAPI	Vertical aperture conv. point [0: Off, 31: Max correction]	0	0	0	0	0						
			Vivid		Standard		Movie		Game		Pro		TWIN
		Depends on Picture Pallete and Video Input	RF	CV/YC	RF	CV/YC	RF	CV/YC	RF	CV/YC	RF	CV/YC	Any
18	YPFT	Y peaking freq. [0: 3.58 MHz, 1: 3.86 MHz, 2: 4.08 MHz, 3: 4.22 MHz]	3	3	3	3	3	3	3	3	3	3	3
19	YPFG	Y peaking gain [0: –1 times, 8: 0 times, 15: +0.875 times]	7	5	7	5	7	5	7	5	7	5	7
			Common										
20	YHCO	Y coring for y [0: Off, 1: Small, 2: Mid, 3: Large]	0										
21	YHCG	Y coring gain for High frequency [0: Normal, 1: 0.5 gain]	1										
22	HSSL	Horizontal sync slice level [0: 4LSB, 15: 19LSB]	12										
23	VSSL	Vertical sync slice level [0: HSSL+0 LSB, 15: HSSL+15 LSB]	8										
24	ADCL	ADC clock delay [0: 0 ns, 1: 3 ns, 2: 17.5 ns, 3: 20.5 ns]	3										
		Depends on NRMD data	NRMD (0)	NRMD (1)	NRMD (2)	NRMD (3)							
25	D2GA	Motion detect gain	4	4	4	4							
		Depends on Signal Input	RF	CV/YC	Video5/Video6								
26	SEDY	Select DY detect [0: Low sensitivity, 1: High sensitivity]	1	1	1								
27	SEDC	Select DC detect [0: Low sensitivity, 1: High sensitivity]	0	0	0								

3D Comb Filter (μPD64082)

Item No.	Item Name	Function	Common								
28	KILR	Killer detector [0: Off, 1: Low sensitivity, 15: High sensitivity]	3								
29	OP	NRMD for Y/C input [0: Recursive Type, 1: Comb Type]	1								
		Depends on Signal Input	RF	V1 CV	V1 YC	V2 CV	V2 YC	V3 CV	V3 YC	V4 CV	V4 YC
30	NR1	Initial setting of NR On/Off [0: On, 1: Off]	0	0	0	0	0	0	0	0	0
			Common								
31	NR2	S/N adaptive processing [0: On, 1: Off]	0								
32	HPLL	H PLL filter [0: Slow convergence, 1: Quick convegence	1								
33	BPLL	Burst PLL filter [0: Quick convergence, 1: Slow convergence]	1								
34	FSCF	Burst extraction gain [0: High gain, 1: Low gain]	0								
35	PLLF	PLL loop gain [0: Low gain, 1: High gain]	1								
		Depends on Signal Input	RF	CV/YC	Video5/Video6						
36	CC3N	C filter characteristic of comb filter [0: Narrow, 1: Wide]	0	0	0						
			Common								
37	HDP	Horizontal phase [0: –1.12 μs, 4: 0 μs, 7: +0.84 μs]	5								
38	BGPS	Burst gate start [0: HS center +2 μs, 15: HS center +5.75 μs]	4								
39	BGPW	Burst gate width [0: 0.5 μs, 15: 4.25 μs]	10								
40	TEST	Test bit [0: Normal, 1: Test mode]	0								
41	WSC	Noise det. coring [0: 0LSB, 1: 1LSB, 2: 2LSB, 3: 3LSB]	1								
		Depends on Signal Input	RF	CV/YC	Video5/Video6						
42	LIND	262P detect [xx1: nonST H, x1x: nonST V, 1xx: LD still]	0	0	2						

2103-1

Main Chroma Decoder (CXA2103)

Item No.	Item Name	Function								
		Depends on Signal Path	DRC	VDO						
0	YLEV	Y out level gain [0: 2.9 dB, 63: 9.0 dB]	35	35						
1	CLEV	CbCr out level gain [0: 2.9 dB, 63: 9.0 dB]	50	42						
		Depends on Signal Input	RF	CV/YC						
2	SCON	Sub contrast [0: –2 dB, 15: +2 dB]	9	9						
3	SCOL	Sub color [0: –2 dB, 15: +2 dB]	2	2						
4	SHUE	Sub hue [0: –8.8 deg, 15: +8.8 deg]	11	5						
5	YDLY	Y/C delay [0: Ref, 1: 30 ns Y delay, 2: 60 ns, 3: 100 ns]	0	0						
		Depends on Signal Input	RF	CV	YC	Video5				
6	SHAP	Sharpness [0: –3 dB, 15: +3 db]	6	8	8	4				
7	SHFO	Sharpness F0 [0: 2.5 MHz, 1: 3.0 MHz, 2: 3.5 MHz, 3: 4.0 MHz]	0	0	0	3				
8	PREO	Pre-over ratio [0: 1.5:1, 1: 1:1, 2: 1:1.5, 3: 1:2]	3	3	3	3				
		Depends on Signal Input	RF	CV	YC					
9	BPFO	Chroma BPF F0 [0: fsc, 1: fsc+400 kHz, 2: fsc+800 kHz, 3: fsc+1.2 MHz]	3	0	0					
10	BFFQ	Chroma BPF Q [0: 2.0, 1: 1.5, 2: 1.2, 3: 1.0]	0	3	3					
11	BPSW	Chroma BPF On/Off [0: Off, 1: On]	1	0	0					
12	TRAP	Chroma trap on Y On/Off [0: Off, 1: On]	0	0	0					
		Depends on Signal Path	DRC	VDO						
13	LPF	Output LPF (YCbCr) [0: On, 1: Off (through)]	1	0						
		Depends on Signal Input	RF	CV/YC	Video5/Video6					
14	AFCG	PLL loop gain [0: fast, 1: slow]	1	0	0					
15	CDMD	Count down mode [0/1/3: CountDown, 2: H look *Tc: 0>1>3]	3	3	3					
16	SSMD	Slice level [0: auto, 1: HV 65%, 2: H 25% V 65%, 3: HV 25%]	0	0	0					
17	HMSK	Mask for Macro Vision [0: Off, 1: On]	0	1	1					
18	HALI	Auto H alignment [0: Off, 1: On (AFC free run)]	0	0	0					
19	PPHA	Picture/H Tim phase [0: –0.5 µs, 15: +0.5 µs]	7	7	7					
		Depends on Signal Input	RF	Video5	Video6					
20	CBOF	Cb/Ext Cb offset [0: –16 mV, 63: +16 mV]	26	29	25					
21	CROF	Cr/Ext Cr offset [0: –16 mV, 63: +16 mV]	23	30	25					
		Depends on CXA2150P-4 BLK	Single	BLK (0)	BLK (1)	BLK (2)	BLK (3)	BLK (4)	BLK (5)	BLK (6)	BLK (7)
**22	ATPD	Auto pedestal point [0: Through, 1: 20 IRE, 2: 30 IRE, 3: 40 IRE]	0	0	1	2	2	2	2	3	1
**23	DCTR	DC transfer ratio [0: 100%, 1: 85%, 2: 90%, 3: 85%]	0	0	2	1	1	3	3	2	2

** Main and Sub CXA2103 share the same data for items 22 and 23.

2103-2

Sub Chroma Decoder (CXA2103)

Item No.	Item Name	Function				
		Depends on Signal Path	DRC	VDO		
0	YLEV	Y out level gain [0: 2.9 dB, 63: 9.0 dB]	35	35		
1	CLEV	CbCr out level gain [0: 2.9 dB, 63: 9.0 dB]	50	42		
		Depends on Signal Input	RF	CV/YC		
2	SCON	Sub contrast [0: –2 dB, 15: +2 dB]	8	8		
3	SCOL	Sub color [0: –2 dB, 15: +2 dB]	3	3		
4	SHUE	Sub hue [0: –8.8 deg, 15: +8.8 deg]	10	3		
5	YDLY	Y/C delay [0: Ref, 1: 30 ns Y delay, 2: 60 ns, 3: 100 ns]	0	0		
		Depends on Signal Input	RF	CV	YC	Video5
6	SHAP	Sharpness [0: –3 dB, 15: +3 db]	0	8	8	4
7	SHFO	Sharpness F0 [0: 2.5 MHz, 1: 3.0 MHz, 2: 3.5 MHz, 3: 4.0 MHz]	0	0	0	3
8	PREO	Pre-over ratio [0: 1.5:1, 1: 1:1, 2: 1:1.5, 3: 1:2]	3	3	3	3
		Depends on Signal Input	RF	CV	YC	
9	BPFO	Chroma BPF F0 [0: fsc, 1: fsc+400 kHz, 2: fsc+800 kHz, 3: fsc+1.2 MHz]	0	0	0	
10	BPFQ	Chroma BPF Q [0: 2.0, 1: 1.5, 2: 1.2, 3: 1.0]	3	3	3	
11	BPSW	Chroma BPF On/Off [0: Off, 1: On]	0	1	1	
12	TRAP	Chroma trap on Y On/Off [0: Off, 1: On]	0	0	0	
		Depends on Signal Path	DRC	VDO		
13	LPF	Output LPF (YCbCr) [0: On, 1: Off (through)]	1	0		
		Depends on Signal Input	RF	CV/YC	Video5/Video6	
14	AFCG	PLL loop gain [0: fast, 1: slow]	1	0	0	
15	CDMD	Count down mode [0/1/3: CountDown, 2: H look *Tc: 0>1>3]	3	3	3	
16	SSMD	Slice level [0: auto, 1: HV 65%, 2: H 25% V 65%, 3: HV 25%]	0	0	0	
17	HMSK	Mask for Macro Vision [0: Off, 1: On]	0	1	1	
18	HALI	Auto H alignment [0: Off, 1: On (AFC free run)]	0	0	0	
19	PPHA	Picture/H Tim phase [0: –0.5 µs, 15: +0.5 µs]	7	7	7	
		Depends on Signal Input	RF	Video5	Video6	
20	CBOF	Cb/Ext Cb offset [0: –16 mV, 63: +16 mV]	27	31	31	
21	CROF	Cr/Ext Cr offset [0: –16 mV, 63: +16 mV]	22	31	31	
			Common			
22	2SCO	SCON offset of CV for 2H Conb [0: –7step, 7: ±0step, 15: +8step]	7			
23	2SCL	SCOL offset of CV for 2H Conb [0: –7step, 7: ±0step, 15: +8step]	7			
24	2SHU	SHUE offset of CV for 2H Conb [0: –7step, 7: ±0step, 15: +8step]	7			

2150P-1

Video Processor (CXA2150)

Item No.	Item Name	Function	Analog 1080i *1	Analog other *2	DTV	TWIN
		Depends on Signal Path and Source				
0	YOF	Y offset [0: –39 mV, 7: 0 mV, 15: +45 mV]	7	7	7	7
1	CBOF	Cb offset [0: B –36 mV G +16 mV, 31: B 0 mV G 0 mV, 63: B +43 mV G –20 mV]	31	37	28	40
2	CROF	Cr offset [0: R –46 mV G +10 mV, 31: R 0 mV G 0 mV, 63: R +55 mV G –12 mV]	31	37	28	40

*1 Used when a 1080i signal by-passes the MID
*2 Used for Analog signals passing through the MID

			Common
3	SBRT	Sub brightness [0: –15 IRE, 31: 0 IRE, 63: 15 IRE]	31
4	RDRV	R drive gain [0: –4 dB, 41: 0 dB, 63: +2 dB]	39
5	GDRV	G drive gain [0: –4 dB, 41: 0 dB, 63: +2 dB]	39
6	BDRV	B drive gain [0: –4 dB, 41: 0 dB, 63: +2 dB]	39
7	RCUT	R cut-off [0: –9 dB, 31: 0 dB, 63: +4 dB]	31
8	GCUT	G cut-off [0: –9 dB, 31: 0 dB, 63: +4 dB]	31
9	BCUT	B cut-off [0: –9 dB, 31: 0 dB, 63: +4 dB]	31

		Depends on Color Temperature	Warm	Cool
10	WBSW	White balance offset [0: Normal, 1: R 100% G 90% B 70%]	0	0
11	SBOF	Sub brightness offset color temperature [0: –7, 7: 0, 15: +8]	7	7
12	RDOF	RDRV offset [0: –15, 15: 0, 31: +16]	15	15
13	GDOF	GDRV offset [0: –15, 15: 0, 31: +16]	15	15
14	BDOF	BDRV offset [0: –15, 15: 0, 31: +16]	15	15
15	RCOF	RCUT offset [0: –15, 15: 0, 31: +16]	15	15
16	GCOF	GCUT offset [0: –15, 15: 0, 31: +16]	15	15
17	BCOF	BCUT offset [0: –15, 15: 0, 31: +16]	15	15
18	DCOL	Dynamic color, Cool [0: Off, 1: High (2025), 2: Mid (2100), 3: Low]	3	--

2150P-2

Video Processor (CXA2150)

Item No.	Item Name	Function	Common
0	ALBK	Picture + Ref. Pulse on/off for G2 adjustment [0: RGB off, 1: RGB on]	1
1	RGBS	[0: All off, 1: B, 2: G, 3: BG, 4: R, 5: BR, 6: GR, 7:BGR]	7
2	BLKB	Bottom limiter level [Ref. Pulse DC voltage 0: –1.25, 3: –0.65]	3
3	LIML	RGB limiter level [0: 115 IRE, 1: 123 IRE, 2: 131 IRE, 3: 140 IRE]	0
4	PABL	Peak ABL [0: 4.9 Vdc, 15: 6.8 Vdc]	15
5	SABL	Signal ABL level [0: Off, 3: maximum gain]	0
6	AGNG	Black/White aging [0: Normal, 1: Black, 2: White, 3: Inhibit]	0
7	AKBO	AKB on/off [0: On, 1: Off]	0

			Analog 1080i *1	Analog other *2
		Depends on Signal Format		
8	SYPH	H sync delay [0: 0%, 1: –3.125%]	0	0
9	CLPH	Clamp pulse phase [0: +5%, 1: +4%, 2: +1%, 3: +2%]	2	2
10	CLGA	Clamp gate on/off [0: Not gated, 1: Gated with input H sync]	0	0
11	CLSH	Clamp pulse start shift [0: No shift, 1: –3.125% shift from CLPH]	0	0

*1 Used when a 1080i signal by-passes the MID
*2 Used for Analog signals passing through the MID

2150P-3

Video Processor (CXA2150)

Item No.	Item Name	Function	Vivid Mode RF	Vivid Mode CV/YC	Vivid Mode Component 480i	Vivid Mode Component 480p	Vivid Mode Component 1080i	Vivid Mode Component 720p	Vivid Mode DTV 480i	Vivid Mode DTV 480p	Vivid Mode DTV 1080i	Vivid Mode DTV 720p	Vivid Mode TWIN
		Depends on Signal Format and Picture Pallet											
0	SYSM	Bandwidth [0: NTSC, 1: FF, 2: HD, 3: DTV]	1	1	1	1	3	3	1	1	3	3	2
1	VMLV	VM level [0: VM0, 1: VM1, 2: VM2, 3: VM3, 4: VM4, 5: VM5, 6: VM6, 7: VM7]	7	7	7	7	7	7	7	7	7	7	7
2	VMMO	VM mode (VM_LEV) [0: Off, 1: Low, 2: Mid, 3: High]	3	3	3	3	3	3	3	3	3	3	3
3	VMCR	VM coring level [0: Off, 1: ±5%, 2: ±10%, 3: ±15%]	1	0	0	0	0	0	0	0	0	0	1
4	VMLM	VM limiter level [0: Off, 1: ±83%, 2: ±67%, 3: ±50%]	0	0	0	0	0	0	0	0	0	0	0
5	VMF0	VM f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	2	2	1	1	2	2	0
6	VMDL	VM delay [0: Short, 3: Long]	1	1	1	1	0	0	1	1	0	0	2
7	SHOF	Sharpness offset [0: 0step, 1: +4step, 2: +8step, 3: +12step]	3	1	1	0	2	2	0	0	2	2	0
8	SHF0	Sharpness f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	1
9	PROV	Pre-over ratio [0: 1:1.5, 1: 1:1, 2: 1.5:1, 3: 2:1]	3	3	3	3	3	3	3	3	3	3	2
10	F1LV	Sharpness f1 [0: 0 dB, 1: +1 dB, 2: +2 dB, 3: +3 dB]	0	0	0	0	3	3	0	0	3	3	0
11	CDSP	Sharpness at color high [0: 0 dB, 1: +2 dB, 2: +4 dB, 3: +6 dB]	0	0	0	0	0	0	0	0	0	0	0
12	LTLV	LTI level [0: Off, 1: Low, 2: Mid, 3: High]	3	3	3	3	3	3	3	3	3	3	3
13	LTMD	LTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	0
14	CTLV	CTI level [0: Off, 1: Low, 2: Mid, 3: High]	0	0	0	0	0	0	0	0	0	0	0
15	CTMD	CTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	0	0	0	0	0	0	0	0	0	0	0
16	UBOF	User bright offset [0: BRIGHT +0, ..., 3: BRIGHT +6, ..., 7: BRIGHT +14]	2	2	3	3	0	2	2	2	2	2	0
17	UCOF	User color offset [0: COLOR +0, ..., 3: COLOR +6, ..., 7: COLOR +14]	0	0	0	0	0	0	0	0	0	0	0
18	UHOF	User hue offset [0: HUE +0, 1: HUE +1, 2: HUE +2, 3: HUE +3]	2	2	2	2	2	2	2	2	2	2	2
19	MIDE	MID Enhancement setting table [0: Soft, ..., 63: Sharp]	7	12	17	22	27	32	37	42	47	52	57

No.	Name	Function	Standard Mode RF	Standard Mode CV/YC	Standard Mode Component 480i	Standard Mode Component 480p	Standard Mode Component 1080i	Standard Mode Component 720p	Standard Mode DTV 480i	Standard Mode DTV 480p	Standard Mode DTV 1080i	Standard Mode DTV 720p	Standard Mode TWIN
		Depends on Signal Format and Picture Pallet											
0	SYSM	Bandwidth [0: NTSC, 1: FF, 2: HD, 3: DTV]	1	1	1	1	3	3	1	1	3	3	2
1	VMLV	VM level [0: VM0, 1: VM1, 2: VM2, 3: VM3, 4: VM4, 5: VM5, 6: VM6, 7: VM7]	7	7	7	7	7	7	7	7	7	7	7
2	VMMO	VM mode (VM_LEV) [0: Off, 1: Low, 2: Mid, 3: High]	3	3	3	3	3	3	3	3	3	3	3
3	VMCR	VM coring level [0: Off, 1: ±5%, 2: ±10%, 3: ±15%]	1	0	0	0	0	0	0	0	0	0	1
4	VMLM	VM limiter level [0: Off, 1: ±83%, 2: ±67%, 3: ±50%]	0	0	0	0	0	0	0	0	0	0	0
5	VMF0	VM f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	2	2	1	1	2	2	0
6	VMDL	VM delay [0: Short, 3: Long]	1	1	1	1	0	0	1	1	0	0	2
7	SHOF	Sharpness offset [0: 0step, 1: +4step, 2: +8step, 3: +12step]	2	2	2	0	2	3	0	0	2	3	0
8	SHF0	Sharpness f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	1
9	PROV	Pre-over ratio [0: 1:1.5, 1: 1:1, 2: 1.5:1, 3: 2:1]	3	3	3	3	3	3	3	3	3	3	2
10	F1LV	Sharpness f1 [0: 0 dB, 1: +1 dB, 2: +2 dB, 3: +3 dB]	0	0	0	0	3	3	0	0	3	3	0
11	CDSP	Sharpness at color high [0: 0 dB, 1: +2 dB, 2: +4 dB, 3: +6 dB]	0	0	0	0	0	0	0	0	0	0	0
12	LTLV	LTI level [0: Off, 1: Low, 2: Mid, 3: High]	2	2	3	3	3	3	3	3	3	3	3
13	LTMD	LTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	0
14	CTLV	CTI level [0: Off, 1: Low, 2: Mid, 3: High]	0	0	0	0	0	0	0	0	0	0	0
15	CTMD	CTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	0	0	0	0	0	0	0	0	0	0	0
16	UBOF	User bright offset [0: BRIGHT +0, ..., 3: BRIGHT +6, ..., 7: BRIGHT +14]	3	3	5	5	7	6	7	7	7	6	2
17	UCOF	User color offset [0: COLOR +0, ..., 3: COLOR +6, ..., 7: COLOR +14]	0	0	0	0	0	0	0	0	0	0	0
18	UHOF	User hue offset [0: HUE +0, 1: HUE +1, 2: HUE +2, 3: HUE +3]	2	2	2	2	2	2	2	2	2	2	2
19	MIDE	MID Enhancement setting table [0: Soft, ..., 63: Sharp]	5	11	16	21	26	31	36	41	46	51	56

Video Processor (CXA2150)

Movie Mode

Item No.	Item Name	Function: Depends on Signal Format and Picture Pallet	RF	CV/YC	Component 480i	Component 480p	Component 1080i	Component 720p	DTV 480i	DTV 480p	DTV 1080i	DTV 720p	TWIN
0	SYSM	Bandwidth [0: NTSC, 1: FF, 2: HD, 3: DTV]	1	1	1	1	3	3	1	1	3	3	2
1	VMLV	VM level [0: VM0, 1: VM1, 2: VM2, 3: VM3, 4: VM4, 5: VM5, 6: VM6, 7: VM7]	2	2	2	2	2	2	2	2	2	2	2
2	VMMO	VM mode (VM_LEV) [0: Off, 1: Low, 2: Mid, 3: High]	3	3	3	3	3	3	3	3	3	3	3
3	VMCR	VM coring level [0: Off, 1: ±5%, 2: ±10%, 3: ±15%]	1	0	0	0	0	0	0	0	0	0	1
4	VMLM	VM limiter level [0: Off, 1: ±83%, 2: ±67%, 3: ±50%]	0	0	0	0	0	0	0	0	0	0	0
5	VMF0	VM f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	2	2	1	1	2	2	0
6	VMDL	VM delay [0: Short, 3: Long]	1	1	1	1	0	0	1	1	0	0	2
7	SHOF	Sharpness offset [0: 0step, 1: +4step, 2: +8step, 3: +12step]	0	0	1	0	2	0	0	0	2	0	0
8	SHF0	Sharpness f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	1
9	PROV	Pre-over ratio [0: 1:1.5, 1: 1:1, 2: 1.5:1, 3: 2:1]	3	3	3	3	3	3	3	3	3	3	2
10	F1LV	Sharpness f1 [0: 0 dB, 1: +1 dB, 2: +2 dB, 3: +3 dB]	0	0	0	0	3	3	0	0	3	3	0
11	CDSP	Sharpness at color high [0: 0 dB, 1: +2 dB, 2: +4 dB, 3: +6 dB]	0	0	0	0	0	0	0	0	0	0	0
12	LTLV	LTI level [0: Off, 1: Low, 2: Mid, 3: High]	1	1	1	1	1	1	1	1	1	1	1
13	LTMD	LTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	0	0	0	0	0	0	0	0	0	0	0
14	CTLV	CTI level [0: Off, 1: Low, 2: Mid, 3: High]	0	0	0	0	0	0	0	0	0	0	0
15	CTMD	CTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	0	0	0	0	0	0	0	0	0	0	0
16	UBOF	User bright offset [0: BRIGHT +0, ..., 3: BRIGHT +6, ..., 7: BRIGHT +14]	6	6	3	3	3	3	3	3	3	3	4
17	UCOF	User color offset [0: COLOR +0, ..., 3: COLOR +6, ..., 7: COLOR +14]	0	0	0	0	0	0	0	0	0	0	0
18	UHOF	User hue offset [0: HUE +0, 1: HUE +1, 2: HUE +2, 3: HUE +3]	2	2	2	2	2	2	2	2	2	2	2
19	MIDE	MID Enhancement setting table [0: Soft, ..., 63: Sharp]	3	10	15	20	25	30	35	40	45	50	55

Game Mode

Item No.	Item Name	Function: Depends on Signal Format and Picture Pallet	RF	CV/YC	Component 480i	Component 480p	Component 1080i	Component 720p	DTV 480i	DTV 480p	DTV 1080i	DTV 720p	TWIN
0	SYSM	Bandwidth [0: NTSC, 1: FF, 2: HD, 3: DTV]	1	1	1	1	3	3	1	1	3	3	2
1	VMLV	VM level [0: VM0, 1: VM1, 2: VM2, 3: VM3, 4: VM4, 5: VM5, 6: VM6, 7: VM7]	7	7	7	7	7	7	7	7	7	7	7
2	VMMO	VM mode (VM_LEV) [0: Off, 1: Low, 2: Mid, 3: High]	3	3	3	3	3	3	3	3	3	3	3
3	VMCR	VM coring level [0: Off, 1: ±5%, 2: ±10%, 3: ±15%]	1	0	0	0	0	0	0	0	0	0	1
4	VMLM	VM limiter level [0: Off, 1: ±83%, 2: ±67%, 3: ±50%]	0	0	0	0	0	0	0	0	0	0	0
5	VMF0	VM f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	2	2	1	1	2	2	0
6	VMDL	VM delay [0: Short, 3: Long]	1	1	1	1	0	0	1	1	0	0	2
7	SHOF	Sharpness offset [0: 0step, 1: +4step, 2: +8step, 3: +12step]	2	2	2	0	2	3	0	0	2	3	0
8	SHF0	Sharpness f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	1
9	PROV	Pre-over ratio [0: 1:1.5, 1: 1:1, 2: 1.5:1, 3: 2:1]	3	3	3	3	3	3	3	3	3	3	2
10	F1LV	Sharpness f1 [0: 0 dB, 1: +1 dB, 2: +2 dB, 3: +3 dB]	0	0	0	0	3	3	0	0	3	3	0
11	CDSP	Sharpness at color high [0: 0 dB, 1: +2 dB, 2: +4 dB, 3: +6 dB]	0	0	0	0	0	0	0	0	0	0	0
12	LTLV	LTI level [0: Off, 1: Low, 2: Mid, 3: High]	0	0	0	0	0	0	0	0	0	0	0
13	LTMD	LTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	0
14	CTLV	CTI level [0: Off, 1: Low, 2: Mid, 3: High]	0	0	0	0	0	0	0	0	0	0	0
15	CTMD	CTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	0	0	0	0	0	0	0	0	0	0	0
16	UBOF	User bright offset [0: BRIGHT +0, ..., 3: BRIGHT +6, ..., 7: BRIGHT +14]	3	3	5	5	7	6	7	7	7	6	2
17	UCOF	User color offset [0: COLOR +0, ..., 3: COLOR +6, ..., 7: COLOR +14]	0	0	0	0	0	0	0	0	0	0	0
18	UHOF	User hue offset [0: HUE +0, 1: HUE +1, 2: HUE +2, 3: HUE +3]	2	2	2	2	2	2	2	2	2	2	2
19	MIDE	MID Enhancement setting table [0: Soft, ..., 63: Sharp]	1	9	14	19	24	29	34	39	44	49	54

Video Processor (CXA2150)

Item No.	Item Name	Function	Pro Mode										
			RF	CV/YC	Component				DTV				TWIN
		Depends on Signal Format and Picture Pallet			480i	480p	1080i	720p	480i	480p	1080i	720p	
0	SYSM	Bandwidth [0: NTSC, 1: FF, 2: HD, 3: DTV]	1	1	1	1	3	3	1	1	3	3	2
1	VMLV	VM level [0: VM0, 1: VM1, 2: VM2, 3: VM3, 4: VM4, 5: VM5, 6: VM6, 7: VM7]	0	0	0	0	0	0	0	0	0	0	0
2	VMMO	VM mode (VM_LEV) [0: Off, 1: Low, 2: Mid, 3: High]	3	3	3	3	3	3	3	3	3	3	3
3	VMCR	VM coring level [0: Off, 1: ±5%, 2: ±10%, 3: ±15%]	1	0	0	0	0	0	0	0	0	0	1
4	VMLM	VM limiter level [0: Off, 1: ±83%, 2: ±67%, 3: ±50%]	0	0	0	0	0	0	0	0	0	0	0
5	VMF0	VM f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	2	2	1	1	2	2	0
6	VMDL	VM delay [0: Short, 3: Long]	1	1	1	1	0	0	1	1	0	0	2
7	SHOF	Sharpness offset [0: 0step, 1: +4step, 2: +8step, 3: +12step]	0	0	0	0	2	0	0	0	2	0	0
8	SHF0	Sharpness f0 [0: Low, 1: Mid, 2: High, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	1
9	PROV	Pre-over ratio [0: 1:1.5, 1: 1:1, 2: 1.5:1, 3: 2:1]	3	3	3	3	3	3	3	3	3	3	2
10	F1LV	Sharpness f1 [0: 0 dB, 1: +1 dB, 2: +2 dB, 3: +3 dB]	0	0	0	0	3	3	0	0	3	3	0
11	CDSP	Sharpness at color high [0: 0 dB, 1: +2 dB, 2: +4 dB, 3: +6 dB]	0	0	0	0	0	0	0	0	0	0	0
12	LTLV	LTI level [0: Off, 1: Low, 2: Mid, 3: High]	0	0	0	0	0	0	0	0	0	0	0
13	LTMD	LTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	1	1	1	1	1	1	1	1	1	1	0
14	CTLV	CTI level [0: Off, 1: Low, 2: Mid, 3: High]	0	0	0	0	0	0	0	0	0	0	0
15	CTMD	CTI mode [0: for Black & White, 1: for Black, 2: for White, 3: Inhibit]	0	0	0	0	0	0	0	0	0	0	0
16	UBOF	User bright offset [0: BRIGHT +0, ..., 3: BRIGHT +6, ..., 7: BRIGHT +14]	6	6	3	3	3	3	3	3	3	3	4
17	UCOF	User color offset [0: COLOR +0, ..., 3: COLOR +6, ..., 7: COLOR +14]	0	0	0	0	0	0	0	0	0	0	0
18	UHOF	User hue offset [0: HUE +0, 1: HUE +1, 2: HUE +2, 3: HUE +3]	0	0	0	0	0	0	0	0	0	0	0
19	MIDE	MID Enhancement setting table [0: Soft, ..., 63: Sharp]	0	8	13	18	23	28	33	38	43	48	53

			Vivid	Standard	Movie	Game	Pro
20	TVVM	Initial VM level [0: VM Off, 1: VM Low, 2: VM Mid, 3: VM Highi]	3	3	1	3	0
21	VM_H	VM Highi level asignment [0: weak, ..., 7: strong]	7	7	6	7	6
22	VM_M	VM Mid level asignment [0: weak, ..., 7: strong]	5	5	4	5	4
23	VM_L	VM Low level asignment [0: weak, ..., 7: strong]	3	3	2	3	2

2150P-4

Video Processor (CXA2150)

Item No.	Item Name	Function							
		Depends on Signal Source	Analog	Digital					
0	SCON	Sub contrast adjustment [0: –1.2 dB, 7: 0 dB, 15: +1.5 dB]	9	4					
1	SCOL	Sub color adjustment [0: –31 step, 31: 0step, 63: +32step]	30	32					
2	SHUE	Sub hue adjustment [0: –31step, 31:0step, 63: +32step]	28	28					
		Depends on Source or Display Mode	Analog: w/o 1080i	TWIN					
3	SCNO	Sub contrast offset from angle [0: –7step, 7: 0step, 15: +8step]	7	7					
4	SCLO	Sub color offset from angle [0: –7step, 7: 0step, 15: +8step]	7	7					
5	SHUO	Sub hue offset from angle [0: –7step, 7: 0step, 15: +8step]	7	7					
			Vivid	Standard	Movie	Game	Pro		
6	UPIC	Initial picture gain [0: –15 dB, 63: 0 dB]	63	50	22	31	31		
7	UBRT	Initial brightness [0: –15 IRE, 31: 0 IRE, 63: +15 IRE]	31	34	34	34	31		
8	UCOL	Initial color [0: Color Off, 31: 0 dB, 63: +6 dB]	33	31	31	31	31		
9	UHUE	Initial hue [0: –33 deg, 31: Center, 63: +33 deg]	31	31	31	31	31		
10	USHP	Initial sharpness [0: –10 dB, 31: +2 dB, 63: +8 dB]	33	29	31	29	31		
11	UTMP	Initial color temperature [0: Low, 1: Mid, 2: High, 3: Inhibit]	2	1	0	1	1		
12	AXIS	Color axis [0: PJ, 1: PAL/SECAM, 2: NTSC-US, 3: NTSC-JP]	0	--	--	--	--		
		Depends on Signal Format and Picture Pallet		Vivid	Standard	Movie	Game	Pro	
13	GAMM	Initial gamma [0: Weak, 7: Strong] ; Upper 2 bit	RF/CV/YC	4	2	2	2	0	
			480i	3	2	2	2	0	
			480p	3	2	2	2	0	
			1080i	4	2	2	2	0	
			720p	4	2	2	2	0	
			TWIN	4	2	0	2	0	
			GAMM (CXA2150P-4 13)						
		Depends on Service Item "GAMM"	0	1	2	3	4	5	6	7
14	GSBO	Sub bright offset for gamma [0: 0step, 3: +3step]	0	0	0	0	0	0	0	0
15	GCCO	Sub color offset for gamma [0: 0step, 3: +3step]	0	0	0	0	0	0	0	0
16	GHUO	Sub hue offset for gamma [0: 0atep, 3: +3step]	0	0	0	0	0	0	0	0
		Depends on Signal Format and Picture Pallet		Vivid	Standard	Movie	Game	Pro	
17	BLK	Black level [0: No Effect, 7: Max Enhance]	RF/CV/YC	6	4	0	4	0	
			480i	7	4	0	4	0	
			480p	7	4	0	4	0	
			1080i	7	4	0	4	0	
			720p	7	4	0	4	0	
			TWIN	5	3	0	3	0	
			BLK (CXA2150P-4 17)						
		Depends on Service Item "BLK"	0	1	2	3	4	5	6	7
18	DCTR	DC trancefer ratio [0: 103%, 1: 100%, 2: 93%, 3: 85%]	1	1	1	1	2	1	2	2
19	DPIC	Auto pedestal level [0: Off, 1: 30 IRE kneedown, 2: 35, 3: 40]	0	0	0	0	1	0	3	2
20	DSBO	Sub bright to offset or UBLK [0: –7step, 7: 0step, 15: +8step]	7	7	7	7	7	7	7	7
21	ABLM	ABL mode [0: PIC, 1: PIC & BRT-min, 2: PIC & BRT-mid, 3: PIC & BRT-max]	0	0	0	0	0	0	1	1
			Others	Small Pic						
22	ABLT	Current detection Vth [0: Vth 0.8 V, 15: Vth 1.9 V]	0	8						
23	ABLC	ABL level [0: Max ABL, 255: Min ABL]	0	0						
24	SPOF	Picture offset for small area picture [0: 0step, 31: –(UPIC/63) x 31]	0	--						
			RF/CV/YC	480i	480p	1080i	720p	TWIN		
25	PIOF	Picture offset level	0	6	6	6	6	6		
26	BROF	Brightness offset level	15	0	0	0	0	7		
27	PICL	Maximum picture level	63	--	--	--	--	--		
28	BRTL	Maximum brightness level	63	--	--	--	--	--		

2150D-1

Deflection (CXA2150)

Item No.	Item Name	Function	Wide Zoom 960i	Zoom 960i	Full / Index 960i	Full / Index 1080i	Normal 960i
0	VPOS	Vertical position	25				
1	VSIZ	Vertical size	50				
2	VSZO	V size off set	0	0	0	31	0
3	VLIN	Vertical linearity	5	5			
4	VSCO	Vertical s correction	8	8			
5	VCEN	Vertical centering	31				
6	VPIN	Vertical pin	15				15
7	NSCO	Rotation	7				
8	HTPZ	Horizontal trapezoid	15				
9	ZOOM	Zoom switch	1	1	0		
10	APSW	Aspect switch	0	0	0	0	0
11	ASPT	Aspect ratio	22	44	0	0	0
12	SCRL	Vertical scroll	29	29	29	29	29
13	UVLN	Upper vertical linearity	5	0	0		0
14	LVLN	Lower vertical linearity	5	0	0		0

2150D-2

Deflection (CXA2150)

Item No.	Item Name	Function	Wide Zoom 960i	Zoom 960i	Full / Index 960i	Full / Index 1080i	Normal 960i
0	HCEN	Horizontal centering	35				
1	HPOS	Horizontal position	25	25			
2	HSIZ	Horizontal size	35	35			
3	SLIN	Horizontal s correction	0	0			
4	MPIN	Horizontal middle pin	0	0			
5	PIN	Horizontal pin	10	10			
6	PINO	Pin offset	7	7			
7	UCP	Upper corner pin	31	31			
8	LCP	Lower corner pin	31	31			
9	UXCG	Upper extra corner pin gain	0	0			
10	LXCG	Lower extra corner pin gain	0	0			
11	UXCP	Upper extra corner pin position	2	2			
12	LXCP	Lower extra corner pin position	2	2			
13	XCPP	Extra corner pin polarity	0	0			
14	PPHA	Pin phase	31	31			
15	VANG	AFC angle	31				
16	LANG	Linearity angle	32				
17	VBOW	AFC bow	31				
18	LBOW	Linearity bow	43				
19	CPY1	Copy function 1	0				

2150D-3

Deflection (CXA2150)

Item No.	Item Name	Function	Wide Zoom 960i	Zoom 960i	Full / Index 960i	Full / Index 1080i	Normal 960i
0	HBLK	Horizontal blanking switch	1				
1	LBLK	Left blanking	56				
2	RBLK	Right blanking	25				
3	VBLK	Vertical blanking switch	0	0	1		1
4	TBLK	Top blanking	15	15	15	4	15
5	BBLK	Bottom blanking	15	15	15	5	15
6	VCMP	Vertical compensation	0	0	0	0	0
7	HCMP	Horizontal compensation	0	0	0	0	0
8	ACMP	AFC compensation	0	0	0		0
9	PCMP	Pin compensation	0	0	0		0
10	AFCM	AFC loop gain		3		1	3
11	VFRQ	Vertical frequency	1				
12	VON	Vertical drive on	1				
13	JUMP	Reference pulse jump switch	0				0
14	VDJP	Vertical drive jump switch	1	1	1	1	1
15	VDST	Vertical drive start switch	0	0	0	0	0
16	EWDC	Pin DC level shift			0		0
17	AKBT	AKB timing	9	9	9	9	9

CXA2151

Sync Selector (CXA2151)

Item No.	Item Name	Function	Depends on Signal Format	1080i/720p	480p/480i	
0	MTRX	Matrix [0: Through, 1: YPbPr (J), 2: YPbPr (U), 3: RGB]		1 *	0 *	* This data can't be memorized, it is controlled by M16C micro.
1	GAIN	Output gain for video [0: 6 dB ±2 dB, 1: 0 dB, 2/3: Mute]		0 *		

Item No.	Item Name	Function	Depens on Signal Input	VIdeo5	Video6	Chroma Dec.
2	FIXS	Sync type [0: Auto Detect, 1: HS/VS, 2: CS, 3: SYNC on Y(G)]		0	0	0

Item No.	Item Name	Function	Depends on Signal Format	Analog 1080i	others
3	CBGN	Output gain for Cb [0: –2 dB, 7: 0 dB, 15: +2 dB]		7	7
4	CRGN	Output gain for Cr [0: –2 dB, 7: 0 dB, 15: +2 dB]		8	8
5	YGN	Output gain for Y [0: –2 dB, 7: 0 dB, 15: +2 dB]		8	8
6	VTC	V sync sep. time constant [0: 6 µs, 3: 18 µs]		0	--

Item No.	Item Name	Function	Depends on Signal Format	1080i/720p	480p/480i	
7	HTC	H sync sep. time constant [0: for HD, 1: for 45.75 kHz]		0 *	1 *	* This data can't be memorized, it is controlled by M16C micro.
8	HWID	H sync width [0: Through, 1: 1.4 µs, 2: 1.7 µs, 3: 3.7 µs]		1 *	--	
9	HSEP	Sync sep. type [0: Voltage Slice, 1: Charge/Dis-charge]		1 *	--	

Item No.	Item Name	Function	Depends on Signal Format	1080i	720p/480p/480i	
10	HMSK	H sync mask during V sync period [0: On, 1: Off]		0 *	1 *	* This data can't be memorized, it is controlled by M16C micro.

Item No.	Item Name	Function	Depens on Signal Input	VIdeo5	Video6	Chroma Dec.
11	FRGB	Matrix = 3: RGB [0: Micro Control, 1: Forced RGB]		0	0	0

MID5

MID Enhancement (CXD9509)

Item No.	Item Name	Function	
0	POP	Service data effect [0 – 63]	Same as "MIDE" (CXA2150P-3 19)

		Depends on Service Item "POP" (MID5 0)	0	1	2	3	4	5	6	7
		Applicable pallet and format :	Analog Tuner							
			Pro	Game		Movie		Standard		Vivid
1	MHLY	Main H LPF Y coefficient code [0 - 3]	2	3	2	2	2	2	2	2
2	MHLC	Main H LPF C coefficient code [0 - 3]	3	3	3	3	3	3	3	3
3	MVLY	Main V LPF Y coefficient code [0 - 3]	0	1	0	0	0	0	0	0
4	MVLC	Main V LPF C coefficient code [0 - 3]	0	1	0	0	0	0	0	0
5	MHYR	Main H enhance Y coreing code [0 - 3]	0	0	0	0	3	3	3	3
6	MHYL	Main H enhance Y cliping code [0 - 3]	0	0	0	0	2	2	2	2
7	MHYE	Main H enhance Y level code [0 - 7]	0	0	0	0	7	7	7	7
8	MHYO	Main H enhance Y coefficient code [0, 1]	1	0	1	1	1	1	1	1
9	MHCR	Main H enhance C coreing code [0 - 3]	0	0	0	0	2	2	2	2
10	MHCL	Main H enhance C cliping code [0 - 3]	0	0	0	0	0	0	0	0
11	MHCE	Main H enhance C level code [0 - 7]	0	0	0	0	0	0	0	0
12	MHCO	Main H enhance C coefficient code [0, 1]	1	0	1	1	1	1	1	1
13	MVYR	Main V enhance Y coreing code [0 - 3]	0	0	0	0	2	2	2	2
14	MVYL	Main V enhance Y cliping code [0 - 3]	0	0	0	0	1	1	1	1
15	MVYE	Main V enhance Y level code [0 - 7]	0	0	0	0	3	3	3	3
16	MVCR	Main V enhance C coreing code [0 - 3]	0	0	0	0	2	2	2	2
17	MVCL	Main V enhance C cliping code [0 - 3]	0	0	0	0	0	0	0	0
18	MVCE	Main V enhance C level code [0 - 7]	0	0	0	0	0	0	0	0

		Depends on Service Item "POP" (MID5 0)	8	9	10	11	12	13	14	15	16	17
		Applicable pallet and format :	Video 1 - 4					Video 5/6 480i				
			Pro	Game	Movie	Standard	Vivid	Pro	Game	Movie	Standard	Vivid
1	MHLY	Main H LPF Y coefficient code [0 - 3]	1	3	1	1	1	2	3	2	2	2
2	MHLC	Main H LPF C coefficient code [0 - 3]	3	3	3	3	3	3	3	3	3	3
3	MVLY	Main V LPF Y coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
4	MVLC	Main V LPF C coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
5	MHYR	Main H enhance Y coreing code [0 - 3]	0	0	0	2	2	0	0	0	1	2
6	MHYL	Main H enhance Y cliping code [0 - 3]	0	0	0	2	2	0	0	0	2	2
7	MHYE	Main H enhance Y level code [0 - 7]	0	0	0	4	7	0	0	0	2	2
8	MHYO	Main H enhance Y coefficient code [0, 1]	1	0	1	1	1	1	0	1	1	1
9	MHCR	Main H enhance C coreing code [0 - 3]	0	0	0	2	2	0	0	0	2	2
10	MHCL	Main H enhance C cliping code [0 - 3]	0	0	0	0	0	0	0	0	0	0
11	MHCE	Main H enhance C level code [0 - 7]	0	0	0	0	0	0	0	0	0	0
12	MHCO	Main H enhance C coefficient code [0, 1]	1	0	1	1	1	1	0	1	1	1
13	MVYR	Main V enhance Y coreing code [0 - 3]	0	0	0	2	3	0	0	0	1	2
14	MVYL	Main V enhance Y cliping code [0 - 3]	0	0	0	1	1	0	0	0	1	1
15	MVYE	Main V enhance Y level code [0 - 7]	0	0	0	3	3	0	0	0	3	4
16	MVCR	Main V enhance C coreing code [0 - 3]	0	0	0	2	2	0	0	0	0	0
17	MVCL	Main V enhance C cliping code [0 - 3]	0	0	0	0	0	0	0	0	2	2
18	MVCE	Main V enhance C level code [0 - 7]	0	0	0	0	0	0	0	0	0	0

MID Enhancement (CXD9509)

Item No.	Item Name	Function	18	19	20	21	22	23	24	25	26	27
		Depends on Service Item "POP" (MID5 0)										
		Applicable pallet and format :			Video 5/6 480p					Video 5/6 1080i		
			Pro	Game	Movie	Standard	Vivid	Pro	Game	Movie	Standard	Vivid
1	MHLY	Main H LPF Y coefficient code [0 - 3]	1	3	1	1	1	2	3	2	2	2
2	MHLC	Main H LPF C coefficient code [0 - 3]	3	3	3	3	3	2	3	2	2	2
3	MVLY	Main V LPF Y coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
4	MVLC	Main V LPF C coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
5	MHYR	Main H enhance Y coreing code [0 - 3]	0	0	0	1	2	0	0	0	1	2
6	MHYL	Main H enhance Y cliping code [0 - 3]	0	0	0	2	2	0	0	0	1	1
7	MHYE	Main H enhance Y level code [0 - 7]	0	0	0	2	7	0	0	0	7	7
8	MHYO	Main H enhance Y coefficient code [0, 1]	1	0	1	1	1	1	0	1	1	1
9	MHCR	Main H enhance C coreing code [0 - 3]	0	0	0	2	2	0	0	0	2	2
10	MHCL	Main H enhance C cliping code [0 - 3]	0	0	0	0	0	0	0	0	2	2
11	MHCE	Main H enhance C level code [0 - 7]	0	0	0	0	0	0	0	0	2	2
12	MHCO	Main H enhance C coefficient code [0, 1]	1	0	1	1	1	1	0	1	1	1
13	MVYR	Main V enhance Y coreing code [0 - 3]	0	0	0	1	2	0	0	0	1	2
14	MVYL	Main V enhance Y cliping code [0 - 3]	0	0	0	1	1	0	0	0	1	1
15	MVYE	Main V enhance Y level code [0 - 7]	0	0	0	5	5	0	0	0	2	5
16	MVCR	Main V enhance C coreing code [0 - 3]	0	0	0	2	2	0	0	0	2	2
17	MVCL	Main V enhance C cliping code [0 - 3]	0	0	0	0	0	0	0	0	1	1
18	MVCE	Main V enhance C level code [0 - 7]	0	0	0	0	0	0	0	0	2	3

Item No.	Item Name	Function	28	29	30	31	32	33	34	35	36	37
		Depends on Service Item "POP" (MID5 0)										
		Applicable pallet and format :			Video 5/6 720p					Digital 480i		
			Pro	Game	Movie	Standard	Vivid	Pro	Game	Movie	Standard	Vivid
1	MHLY	Main H LPF Y coefficient code [0 - 3]	0	3	0	0	0	1	3	1	1	1
2	MHLC	Main H LPF C coefficient code [0 - 3]	0	3	0	0	0	3	3	3	3	3
3	MVLY	Main V LPF Y coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
4	MVLC	Main V LPF C coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
5	MHYR	Main H enhance Y coreing code [0 - 3]	0	0	0	1	3	0	0	0	1	2
6	MHYL	Main H enhance Y cliping code [0 - 3]	0	0	0	1	1	0	0	0	2	0
7	MHYE	Main H enhance Y level code [0 - 7]	0	0	0	7	4	0	0	0	2	0
8	MHYO	Main H enhance Y coefficient code [0, 1]	1	0	1	1	1	1	0	1	1	1
9	MHCR	Main H enhance C coreing code [0 - 3]	0	0	0	1	3	0	0	0	2	2
10	MHCL	Main H enhance C cliping code [0 - 3]	0	0	0	2	2	0	0	0	0	0
11	MHCE	Main H enhance C level code [0 - 7]	0	0	0	2	2	0	0	0	0	0
12	MHCO	Main H enhance C coefficient code [0, 1]	1	0	1	1	1	1	0	1	1	1
13	MVYR	Main V enhance Y coreing code [0 - 3]	0	0	0	1	3	0	0	0	1	1
14	MVYL	Main V enhance Y cliping code [0 - 3]	0	0	0	1	1	0	0	0	1	1
15	MVYE	Main V enhance Y level code [0 - 7]	0	0	0	4	3	0	0	0	3	4
16	MVCR	Main V enhance C coreing code [0 - 3]	0	0	0	1	3	0	0	0	2	2
17	MVCL	Main V enhance C cliping code [0 - 3]	0	0	0	1	1	0	0	0	0	0
18	MVCE	Main V enhance C level code [0 - 7]	0	0	0	4	3	0	0	0	0	0

MID Enhancement (CXD9509)

Item No.	Item Name	Function										
		Depends on Service Item "POP" (MID5 0)	38	39	40	41	42	43	44	45	46	47
		Applicable pallet and format :			Digital 480p					Digital 1080i		
			Pro	Game	Movie	Standard	Vivid	Pro	Game	Movie	Standard	Vivid
1	MHLY	Main H LPF Y coefficient code [0 - 3]	1	3	1	2	2	2	3	2	2	2
2	MHLC	Main H LPF C coefficient code [0 - 3]	3	3	3	3	3	2	3	2	2	2
3	MVLY	Main V LPF Y coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
4	MVLC	Main V LPF C coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
5	MHYR	Main H enhance Y coreing code [0 - 3]	0	0	0	1	2	0	0	0	1	2
6	MHYL	Main H enhance Y cliping code [0 - 3]	0	0	0	2	2	0	0	0	1	1
7	MHYE	Main H enhance Y level code [0 - 7]	0	0	0	2	7	0	0	0	7	7
8	MHYO	Main H enhance Y coefficient code [0, 1]	1	0	1	1	1	1	0	1	1	1
9	MHCR	Main H enhance C coreing code [0 - 3]	0	0	0	2	2	0	0	0	2	2
10	MHCL	Main H enhance C cliping code [0 - 3]	0	0	0	0	0	0	0	0	7	0
11	MHCE	Main H enhance C level code [0 - 7]	0	0	0	0	0	0	0	0	0	0
12	MHCO	Main H enhance C coefficient code [0, 1]	0	0	1	1	1	1	0	1	1	1
13	MVYR	Main V enhance Y coreing code [0 - 3]	0	0	0	1	3	0	0	0	1	2
14	MVYL	Main V enhance Y cliping code [0 - 3]	0	0	0	1	1	0	0	0	1	1
15	MVYE	Main V enhance Y level code [0 - 7]	0	0	0	5	3	0	0	0	2	5
16	MVCR	Main V enhance C coreing code [0 - 3]	0	0	0	2	2	0	0	0	2	2
17	MVCL	Main V enhance C cliping code [0 - 3]	0	0	0	0	0	0	0	0	0	0
18	MVCE	Main V enhance C level code [0 - 7]	0	0	0	0	0	0	0	0	0	0

		Depends on Service Item "POP" (MID5 0)	48	49	50	51	52	53	54	55	56	57
		Applicable pallet and format :			Digital 720p					TWIN		
			Pro	Game	Movie	Standard	Vivid	Pro	Game	Movie	Standard	Vivid
1	MHLY	Main H LPF Y coefficient code [0 - 3]	0	3	0	0	0	0	3	0	0	0
2	MHLC	Main H LPF C coefficient code [0 - 3]	0	3	0	0	0	0	3	0	0	0
3	MVLY	Main V LPF Y coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
4	MVLC	Main V LPF C coefficient code [0 - 3]	0	1	0	0	0	0	1	0	0	0
5	MHYR	Main H enhance Y coreing code [0 - 3]	0	0	0	1	3	0	0	0	0	0
6	MHYL	Main H enhance Y cliping code [0 - 3]	0	0	0	1	1	0	0	0	0	0
7	MHYE	Main H enhance Y level code [0 - 7]	0	0	0	7	4	0	0	0	0	0
8	MHYO	Main H enhance Y coefficient code [0, 1]	1	0	1	1	1	0	0	0	0	0
9	MHCR	Main H enhance C coreing code [0 - 3]	0	0	0	2	3	0	0	0	0	0
10	MHCL	Main H enhance C cliping code [0 - 3]	0	0	0	2	2	0	0	0	0	0
11	MHCE	Main H enhance C level code [0 - 7]	0	0	0	2	2	0	0	0	0	0
12	MHCO	Main H enhance C coefficient code [0, 1]	1	0	1	1	1	0	0	0	0	0
13	MVYR	Main V enhance Y coreing code [0 - 3]	0	0	0	1	3	0	0	0	0	0
14	MVYL	Main V enhance Y cliping code [0 - 3]	0	0	0	1	1	0	0	0	0	0
15	MVYE	Main V enhance Y level code [0 - 7]	0	0	0	4	3	0	0	0	0	0
16	MVCR	Main V enhance C coreing code [0 - 3]	0	0	0	1	3	0	0	0	0	0
17	MVCL	Main V enhance C cliping code [0 - 3]	0	0	0	1	1	0	0	0	0	0
18	MVCE	Main V enhance C level code [0 - 7]	0	0	0	4	3	0	0	0	0	0

MID Enhancement (CXD9509)

Item No.	Item Name	Function	
		Depends on Service Item "POP" (MID5 0)	0 - 63 (Same Data)
19	SHLY	Sub H LPF Y coefficient code [0 - 7]	0
20	SHLC	Sub H LPF C coefficient code [0 - 7]	0
21	SVLY	Sub V LPF Y coefficient code [0 - 7]	0
22	SVLC	Sub V LPF C coefficient code [0 - 7]	0
23	SHYR	Sub H enhance Y coreing code [0 - 3]	0
24	SHYL	Sub H enhance Y cliping code [0 - 3]	0
25	SHYE	Sub H enhance Y level code [0 - 7]	0
26	SHYO	Sub H enhance Y coefficient code [0, 1]	0
27	SHCR	Sub H enhance C coreing code [0 - 3]	0
28	SHCL	Sub H enhance C cliping code [0 - 3]	0
29	SHCE	Sub H enhance C level code [0 - 7]	0
30	SHCO	Sub H enhance C coefficient code [0, 1]	0
31	SVYR	Sub V enhance Y coreing code [0 - 3]	0
32	SVYL	Sub V enhance Y cliping code [0 - 3]	0
33	SVYE	Sub V enhance Y level code [0 - 7]	0
34	SVCR	Sub V enhance C coreing code [0 - 3]	0
35	SVCL	Sub V enhance C cliping code [0 - 3]	0
36	SVCE	Sub V enhance C level code [0 - 7]	0

CXA3506R

A/D Converter (CXA3506)

Item No.	Item Name	Function		
			1080i/720p/480p	480i (sub)
0	MCON	Main contrast [0 - 255]	64	64
1	SCOR	Sub contrast Y [0 - 255]	108	113
2	SCOG	Sub contrast Cb [0 - 255]	155	150
3	SCOB	Sub contrast Cr [0 - 255]	153	153
4	RGB	RGB out select [0, 1]	0	0

TDA7312F

Audio Processor (TDA7312-F)

Item No.	Item Name	Function	Common
0	SBAS	Sub bass control	7
1	STRE	Sub treble	7

TDA7312R

Audio Processor (TDA7312-R)

Item No.	Item Name	Function	Common
0	SBAS	Sub bass control	7
1	STRE	Sub treble	7

TDA7312C

Audio Processor (TDA7312-C)

Item No.	Item Name	Function	Common
0	SBAS	Sub bass control	7
1	STRE	Sub treble	7

SNNR

SNNR

Item No.	Item Name	Function	Common	
0	SNNR	SNNR data label	*1	*1 Data is controlled by M16C Micro
1	SNFX	[0: SNNR is controlled by Micro, 1: SNNR controled by service]	0 *2	*2 Normally "0"

		Sets the Threshold for SNNR	A	B	C	D	E	F	G
2	WSLT	Threshold of SNNR	15	31	45	63	85	127	180

To choose the SNNR level the following equations apply

0 <= WSL < WSLT (A)	Select SNNR (0)
WSLT (A) <= WSL < WSLT (B)	Select SNNR (1)
WSLT (B) <= WSL < WSLT (C)	Select SNNR (2)
WSLT (C) <= WSL < WSLT (D)	Select SNNR (3)
WSLT (D) <= WSL < WSLT (E)	Select SNNR (4)
WSLT (E) <= WSL < WSLT (F)	Select SNNR (5)
WSLT (F) <= WSL < WSLT (G)	Select SNNR (6)
WSLT (G) <= WSL < 255	Select SNNR (7)

		SNNR Offset Data	0	1	2	3	4	5	6	7
3	CPFG	µPD64082: YPFG (–Offset Data)	0	0	1	1	1	1	2	2
4	CPFT	µPD64082: YPFT (–Offset Data)	0	0	2	2	2	3	3	3
5	CCOR	µPD64082: YHCOR (–Offset Data)	3	3	3	3	3	3	3	3
6	CHCG	µPD64082: YHCGAIN (–Offset Data)	1	1	1	1	1	1	1	1
7	CAPG	µPD64082: YAPGAIN (–Offset Data)	0	0	0	0	0	0	0	0
8	3SHP	CXA2103-M: SHAP (–Offset Data)	0	1	1	2	2	2	2	3
9	5SHP	CXA2150P-4: USHP (–Offset Data)	0	0	2	2	3	4	4	4
10	5YF1	CXA2150P-3: F1LV (–Offset Data)	0	0	1	1	2	2	2	3
11	5CDS	CXA2150P-3: CDSP (–Offset Data)	0	2	2	2	2	2	2	2
12	5LTI	CXA2150P-3: LTLV (–Offset Data)	0	0	0	0	0	0	0	0
13	5CTI	CXA2150P-3: CTLV (–Offset Data)	0	0	0	0	0	0	0	0
14	5VML	CXA2150P-3: UVML (–Offset Data)	0	0	0	0	0	0	0	0
15	5VMC	CXA2150P-3: VMCR (–Offset Data)	0	1	1	1	2	2	2	2
16	MIDD	CXA2150P-3: MID offset for SN (–Offset Data)	0	0	0	0	0	0	0	0

SNNR (0) uses no Offset Data
SNNR (1) uses Offset Data (0)
SNNR (2) uses Offset Data (1)
SNNR (3) uses Offset Data (2)
SNNR (4) uses Offset Data (3)
SNNR (5) uses Offset Data (4)
SNNR (6) uses Offset Data (5)
SNNR (7) uses Offset Data (6)

TP

Model Type

Item No.	Item Name	Function	Common
0	MODL	Model category [0: HA3, 1: RA5A]	1

PJE

NVM list (PJ Engine)

Item		Function	Data Range	Normal	Zoom	Wide Zoom	HD
No.	Name						
00	FDIS	Swith of display for fine adjustment data	00, 01	–			
01	COPY	Service copy adjustment	00, 01	–			
02	ALCP	Service all copy adjustment	00, 01	–			
03	OSDH	OSD horizontal position of PJED service menu	01 - 255	22			
04	OSDV	OSD vertical position of PJED service menu	01 - 255	100	120	100	60
05	FVSL	Start position of fine adjustment	00 - 15	00	14	15	00
06	FVSP	Start line of fine adjustment	00 - 255	03	21	25	53
07	V1DL	Value of V1 delay	00 - 255	01	139	60	01
08	V1CU	Value of V1 count up	000 - 4095	454	598	506	387
09	V1OH	Value of V1 offset upper data	00 - 255	05	05	05	79
10	V1OL	Value of V1 offset lower data	00 - 255	00	00	00	00
11	OEVP	Odd/Even select position	000 - 4095	1056			
12	COHP	Horizontal phase for rough adjustment	000 - 4095	000			
13	34CS	Start center clamp position of H3 and H4 pulse	00 - 31	14			
14	34CW	Width center clamp position of H3 and H4 pulse	00 - 31	00			
15	FIHP	Horizontal phase for fine adjustment	000 - 4095	1104			
16	TPHP	Horizontal phase for test pattern	000 - 4095	069			
17	TPVP	Vertical phase for test pattern	00 - 255	55	111	79	15
18	DFHP	Horizontal phase for dynamic focus	000 - 4095	200			
19	DFHG	Value of horizontal parabola wave for dynamic focus	–128 - 127	–90	–90	–90	–90
20	DFVG	Value of vertical parabola wave for dynamic focus	–128 - 127	–60	–60	–60	–60
21	DFDC	Value of center for dynamic focus	–128 - 127	127	127	127	127
22	DFV1	Value of V1 saw wave for dynamic focus	–128 - 127	–50	–50	–50	–50
23	SDHP	Compensation of horizontal phase for shading	000 - 4095	501			
24	SDH1	Value of horizontal saw wave for dynamic focus	–128 - 127	–128	–128	–128	–128
25	RVCS	Start position of Red vertical clamp	00 - 31	00			
26	RVCW	Width of Red vertical clamp	00 - 31	00			
27	GVCS	Start position of Green vertical clamp	00 - 31	00			
28	GVCW	Width of Green vertical clamp	00 - 31	00			
29	BVCS	Start position of Blue vertical clamp	00 - 31	00			
30	BVCW	Width of Blue vertical clamp	00 - 31	00			
31	RHCS	Start of position Red horizontal clamp	00 - 31	00			
32	RHCW	Width of Red horizontal clamp	00 - 31	00			
33	GHCS	Start position of Green horizontal clamp	00 - 31	00			
34	GHCW	Width of Green horizontal clamp	00 - 31	00			
35	BHCS	Start position of Blue horizontal clamp	00 - 31	00			
36	BHCW	Width of Blue horizontal clamp	00 - 31	00			
37	BDVU	Vertical position for boder line 1	000 - 2047	023	018	012	049
38	BDVL	Vertical position for boder line 2	000 - 2047	905	686	820	1039
39	BDHL	Horizontal position for boder line 1	000 - 2047	148			
40	BDHR	Horizontal position for boder line 2	000 - 2047	1262			
41	HBLD	Horizontal phase for output of H. Blank out	000 - 4095	000			
42	HBLW	Width for output of H. Blank out	000 - 4095	000			
43	PWM2	PWM2 output width setting of Regi. IC	000 - 4095	730 (57 inch), 600 (65 inch)			
44	COGV	Green vertical center offset data for Auto Regi.	–128 - 127	–			
45	CORV	Red vertical center offset data for Auto Regi.	–128 - 127	–			
46	COBV	Blue vertical center offset data for Auto Regi.	–128 - 127	–			
47	COGH	Green horizontal center offset data for Auto Regi.	–128 - 127	–			
48	CORH	Red horizontal center offset data for Auto Regi.	–128 - 127	–			
49	COBH	Blue horizontal center offset data for Auto Regi.	–128 - 127	–			
50	SOGV	Green vertical skew offset data for Auto Regi.	–128 - 127	–			
51	SORV	Red vertical skew offset data for Auto Regi.	–128 - 127	–			
52	SOBV	Blue vertical skew offset data for Auto Regi.	–128 - 127	–			
53	SOGH	Green horizontal skew offset data for Auto Regi.	–128 - 127	–			
54	SORH	Red horizontal skew offset data for Auto Regi.	–128 - 127	–			

NVM list (PJ Engine)

Item		Function	Data Range	Normal	Zoom	Wide Zoom	HD
No.	Name						
55	SOBH	Blue horizontal skew offset data for Auto Regi.	–128 - 127	–			
56	ZOGH	Green horizontal size offset data for Auto Regi.	–128 - 127	–			
57	ZORH	Red horizontal size offset data for Auto Regi.	–128 - 127	–			
58	ZOBH	Blue horizontal size offset data for Auto Regi.	–128 - 127	–			
59	LOGH	Green horizontal linearity offset data for Auto Regi.	–128 - 127	–			
60	LORH	Red horizontal linearity offset data for Auto Regi.	–128 - 127	–			
61	LOBH	Blue horizontal linearity offset data for Auto Regi.	–128 - 127	–			
62	ERR	Auto Regi. Error code	000 - xxx	–			
63	ADTM	A/D data input timing of Auto Regi.	00 - 127	134 (57 inch), 134 (65 inch)			
64	VUP	Auto Regi. pattern upper vertical position	000 - 2047	048 (57 inch), 048 (65 inch)			
65	VUPM	Auto Regi. pattern upper middle vertical position	000 - 2047	000			
66	VMID	Auto Regi. pattern middle vertical position	000 - 2047	515 (57 inch), 515 (65 inch)			
67	VLOM	Auto Regi. pattern lower middle vertical position	000 - 2047	000			
68	VLOW	Auto Regi. pattern lower vertical position	000 - 2047	980 (57 inch), 980 (65 inch)			
69	HLE	Auto Regi. pattern left horizontal position	000 - 4095	072 (57 inch), 072 (65inch)			
70	HLEM	Auto Regi. pattern left middle horizontal position	000 - 4095	000			
71	HMID	Auto Regi. pattern middle horizontal position	000 - 4095	655 (57 inch), 655 (65 inch)			
72	HRIM	Auto Regi. pattern right middle horizontal position	000 - 4095	000			
73	HRIV	Auto Regi pattern right horizontal position	000 - 4095	1232 (57 inch), 1232 (65 inch)			
74	SFTF	Swith of shift fast	000, 001	000			
75	ACTL	Acount timer counter lower byte	000 - xxx	000			
76	ACTH	Acount timer counter upper byte	000 - xx	000			
77	SLSW	Auto Regi. adjustment item select	000 - 003	003 (57 inch), 003 (65 inch)			
GRN	CENT	Green Horizontal / Vertical center	–512 - 511	35 / 20			
	SKEW	Green Horizontal / Vertical skew	–512 - 511	000 / 000			
	SIZE	Green Horizontal / Vertical size	–512 - 511	–100 / –075			
	LIN	Green Horizontal / Vertical linearity	–512 - 511	000 / 000			
	KEY	Green Vertical keystone	–512 - 511	xxxx / 000			
	PIN	Green Horizontal pincushion	–512 - 511	000 / 400			
	MLIN	Green Horizontal mid linearity	–512 - 511	000 / xxxx			
	MSIZ	Green Horizontal mid size	–512 - 511	–200 / xxxx			
BLU	CENT	Blue Horizontal / Vertical center	–512 - 511	35 / 20			
	SKEW	Blue Horizontal / Vertical skew	–512 - 511	000 / 000			
	SIZE	Blue Horizontal / Vertical size	–512 - 511	–100 / –075			
	LIN	Blue Horizontal / Vertical linearity	–512 - 511	–425 / 000			
	KEY	Blue Vertical keystone	–512 - 511	xxxx / –120			
	PIN	Blue Horizontal pincushion	–512 - 511	000 / 350			
	MLIN	Blue Horizontal mid linearity	–512 - 511	150 / xxxx			
	MSIZ	Blue Horizontal mid size	–512 - 511	–100 / xxxx			
RED	CENT	Red Horizontal / Vertical center	–512 - 511	35 / 20			
	SKEW	Red Horizontal / Vertical skew	–512 - 511	000 / 000			
	SIZE	Red Horizontal / Vertical size	–512 - 511	–100 / –075			
	LIN	Red Horizontal / Vertical linearity	–512 - 511	425 / 000			
	KEY	Red Vertical keystone	–512 - 511	xxxx / 120			
	PIN	Red Horizontal pincushion	–512 - 511	000 / 350			
	MLIN	Red Horizontal mid linearity	–512 - 511	–150 / xxxx			
	MSIZ	Red Horizontal mid size	–512 - 511	–100 / xxxx			

OP

Model Option

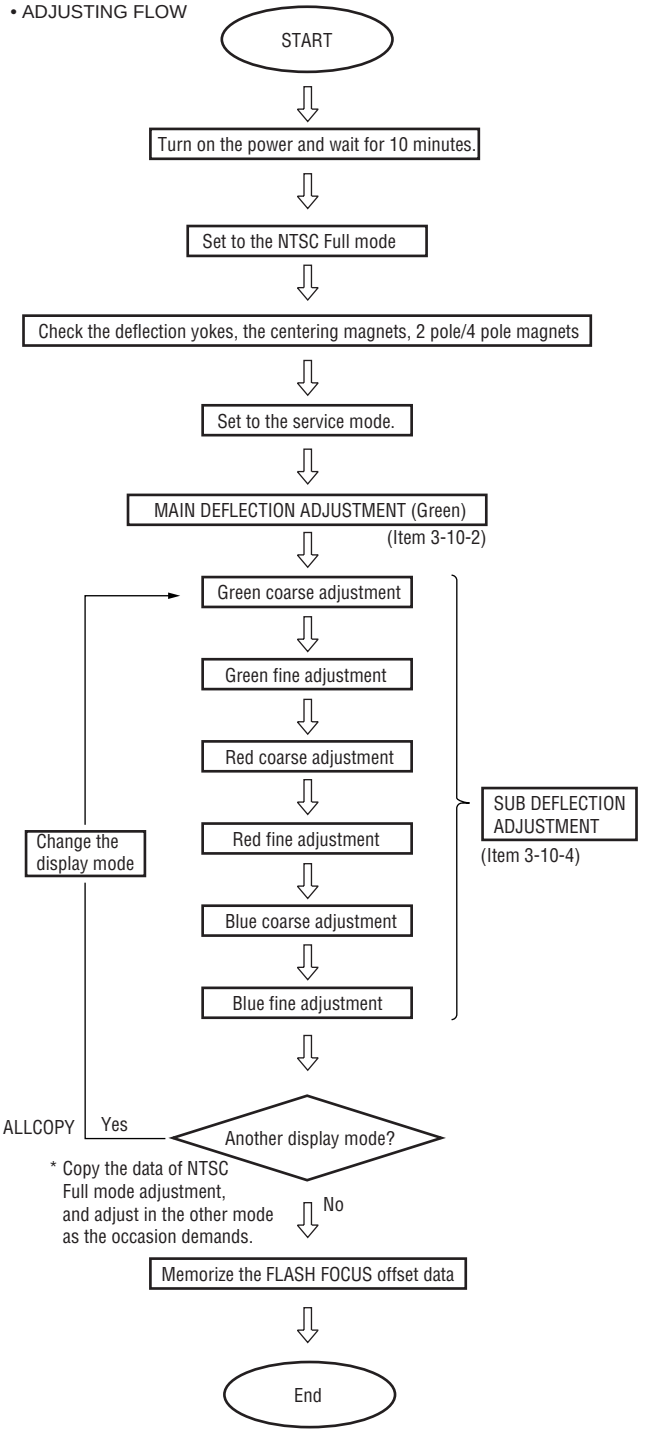
Item		Function	Common
No.	Name		
0	DLY1	Delay time 1 of power on segment	10
1	DLY2	Delay time 2 of power on segment	18
2	DLY3	Delay time 3 of power on segment	0
3	AGCA	AGC ATT level	255
4	OSDH	OSD H position [0: Left, 254: Right]	8
5	HDPT	HD (1080i) pass through switch [0: Pass through, 1: MID out]	1
6	DRST	DTV box auto reset function [0: Off, 1: On]	1
7	RAMW	RAM window display [0: Off, 1: Display]	0

ID

Model ID

Item		Function	Common
No.	Name		
0	ID0	Language/System	89
1	ID1	Video input	255
2	ID2	Audio	119
3	ID3	etc. 1	106
4	ID4	etc. 2	75
5	ID5	etc. 3	161
6	ID6	Sub picture	62
7	ID7	etc. 4	30

3-11. REGISTRATION ADJUSTMENT

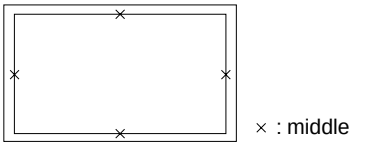


3-11-1. Setup for Adjustment

1. Marking

1) At the 4 insides of the screen, locate the middle. Use a tape measure to identify the middle.

2. Data Setting



1) Set NTSC Full mode.
2) Enter the Service mode, and select “PJE”.

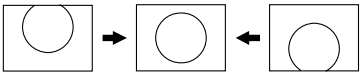
Note : When you replaced printed circuit boards or devices or CRTs, and when correction is drastically necessary, press “⑦” + “ENTER” buttons to initialize the data in the Projector Engine mode.
Press “MUTING” + “ENTER” buttons on the commander to write the data.

3-11-2. Main Deflection Adjustment

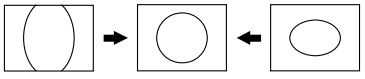
Note : Before this adjustment, input the data of PJE item GRN, RED and BLU (See page 39).

1. Place the caps on the red and blue lenses so that only the green color is displayed.
2. Enter the monoscope signal and set to NTSC Full mode .
3. Enter the Service mode, and select “2150D-1” .
4. Adjust “0 VPOS” and “1 VSIZ” so that the picture is displayed in the center of screen.

0 VPOS



1 VSIZ

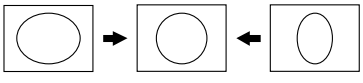


5. Select “2150D-2” and adjust “2 HSIZ” so that the picture size is within the specification.

SPEC Overscan Spec. = 9%

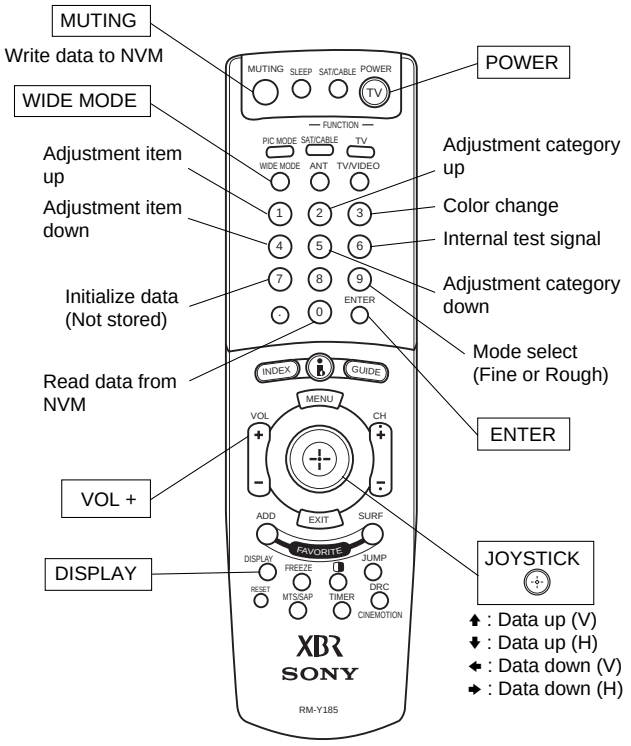
Input Signal	H SIZE	V SIZE
Monoscope	15.5 ± 0.2 sq.	11.6 ± 0.2 sq.

2 HSIZ



6. Copy the dada of NTSC Full mode to the other display mode and adjust in the other mode as the occasion demands.

3-11-3. Operation Method for Projector Engine Mode



RM-Y185

1. Functions of Keys on Commander

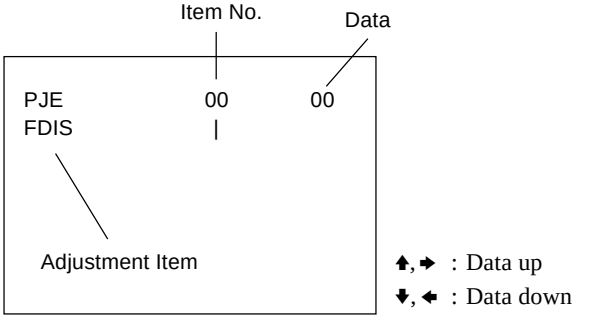
- ① : Changes adjustment item. (item No. moves up)
  : Marker moves clockwise from center to outside. (in fine adjustment mode)
- ④ : Changes adjustment item. (item No. moves down)
  : Marker moves counterclockwise from outside to center. (in fine adjustment mode)
- ② : Changes adjustment category. (category moves up)
- ⑤ : Changes adjustment category. (category moves down)º
- ↑ ↓ ← → : Changes data value.
  : Marker moves up, down, or to the left or right. (in fine adjustment mode)
- ③ : Changes adjustment color. (except item No. 00~77) GRN → BLU → RED
- ⑥ : Displays or changes internal test signals.
  : crosshatch + external signal → crosshatch + borderline → crosshatch only → dot only → off
- ⑨ : Switches adjustment mode. rough adjustment mode → fine adjustment mode
- ⊕ (push) : Switches marker moving method. (in fine adjustment mode) joystick key → ① and ④ buttons

Commander Function

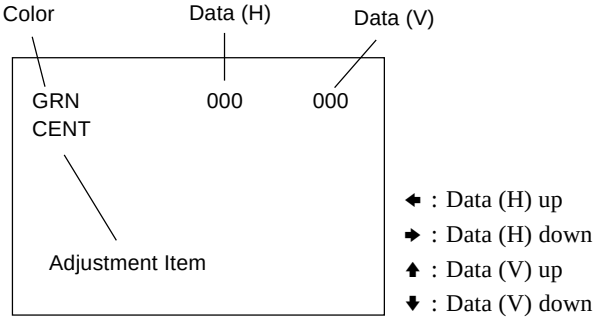
Button	Mode	Description
MUTING + ENTER	WRITE	Writes data to NVM.
⓪ + ENTER	READ	Reads data from NVM.
⑦ + ENTER	PJE	Service data initialization.
	INITIAL	Not stored.
		(Be sure not to use usually)

2. Operation Method for Rough Adjustment

1) Set in the service mode, and select the category “PJE”.
2) Press “①” or “④” button on the commander to select the item, and move the joystick ↑, ↓, ←, → to change the data.



3) Select “GRN CENT” . When BLU or RED is displayed, press “③” button on the commander to change the adjustment color in the order of GRN → BLU → RED.
4) In the GRN, BLU, or RED mode, moving the joystick ↑, ↓ can change the data in vertical direction, or ←, → in horizontal direction.

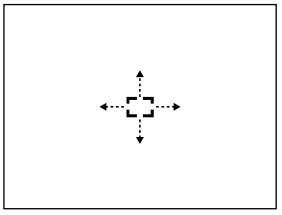


5) Before returning to the Service mode, press “MUTING” +“ENTER” buttons on the commander to write the data. (Omission of this operation causes the set data to be returned to the data before adjustment)

3. Operation Method for Fine Adjustment

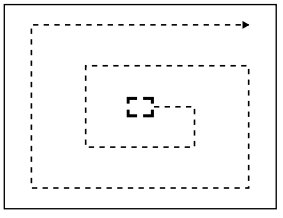
1) Set in the service mode and select the category “PJE”.
2) Select “00 FDIS” so that the data at each position can be displayed in the fine adjustment mode, and set the data to “01”.
3) Press “⑨” button on the commander, and the fine adjustment mode will be active where a green marker appears in the center of screen (in the case of GRN mode).
4) Press “◎” button on the commander, and the marker color will be switched between green (GRN mode) and white alternately.
5) Use “①” or “④” button on the commander, or the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.

• When marker color is white.
(in this case, fine adjustment is disabled)



Operating the joystick can move the marker up, down, or to the left or right freely.

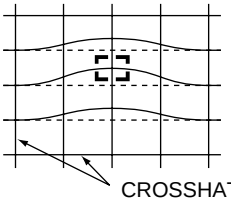
• When marker color is green. (GRN mode)



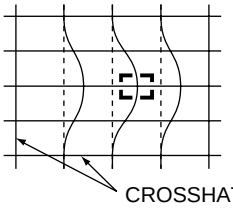
① : moves the marker clockwise from center to outside.
④ : moves the marker counterclockwise from outside to center.

• Fine adjustment can be made on the basis of marker position by moving the joystick ↑, ↓, ←, →.

Movement when moving the joystick ↑.



Movement when moving the joystic →.



6) Press “⑨” button on the commander to return to the rough adjustment mode.

3-11-4. Projector Engine Adjustment (Sub Deflection Adjustment)

Adjustment ○ : Yes – : No

Adjustment Item	Adjustment Type		
	GRN	RED	BLU
	H / V	H / V	H / V
CENT	○ / ○	○ / ○	○ / ○
SKEW	○ / ○	○ / ○	○ / ○
SIZE	○ / ○	○ / ○	○ / ○
LIN	○ / ○	○ / ○	○ / ○
KEY	– / ○	– / ○	– / ○
PIN	○ / ○	○ / ○	○ / ○
MLIN	○ / –	○ / –	○ / –
MSIZ	○ / –	○ / –	○ / –

Note: If the value of over the limit value, adjust these in the fine adjustment .

< Rough Adjustment Data Limit Valune >
CENT H : 35±170 V : 20±170
SIZE H : –75max
LIN H BLU : –425min
H RED : 425max

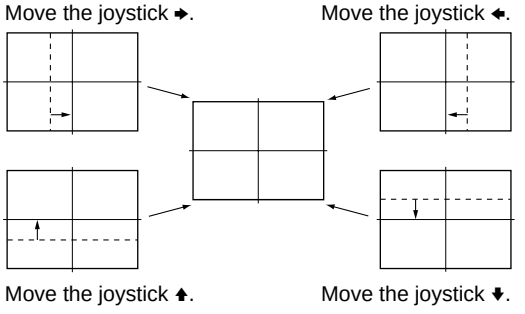
<Adjustment for NTSC Full Screen Mode>

The adjustment should be done in the numerical order given.

1. Green Adjustment

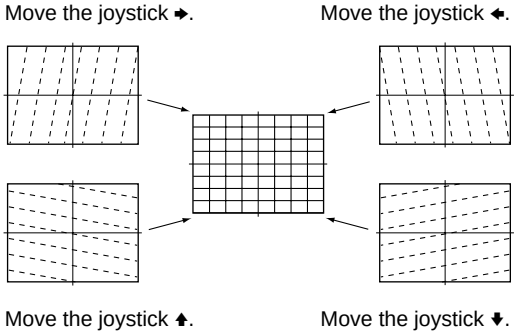
1) Place the caps on the red and blue lenses so that only the green color is displayed.
2) Enter the monoscope signal to set.
3) Select the “PJE” mode.
4) Press “⑥” button on the commander to display internal test signal (crosshatch).
5) Select “GRN CENT”, and adjust so that the picture coincide in the center of screen.

• GRN CENT (horizontally/vertically)



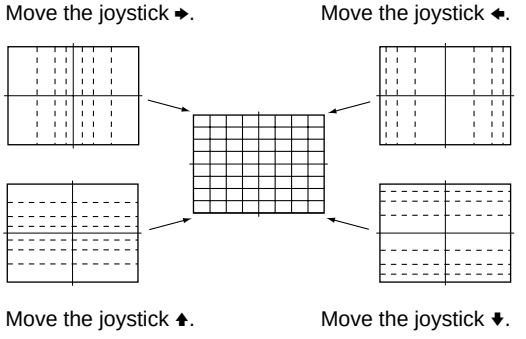
6) Select “GRN SKEW”, and correct the tilt of horizontal lines and vertical lines.

• GRN SKEW (horizontally/vertically)



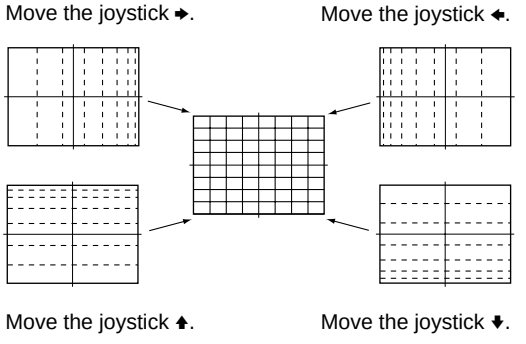
7) Select “GRN SIZE”, and adjust so that each distance from center to left end and to right end is equal. Adjust so that each distance from center to top and to bottom is equal.

• GRN SIZE (horizontally/vertically)



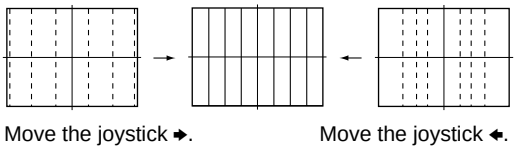
8) Select “GRN LIN”, and adjust so that each space at the right end and at the left end of screen is equal. Adjust so that each space at the top and at the bottom of screen is equal.

• GRN LIN (horizontally/vertically)



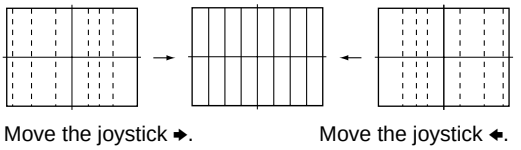
9) Select “GRN MSIZ”, and correct the space intervals for the horizontal section of the screen are equal.

• GRN MSIZ (horizontally)



10) Select “GRN MLIN”, and correct the sizes of the horizontal line at the center of the screen are symmetrical left and right.

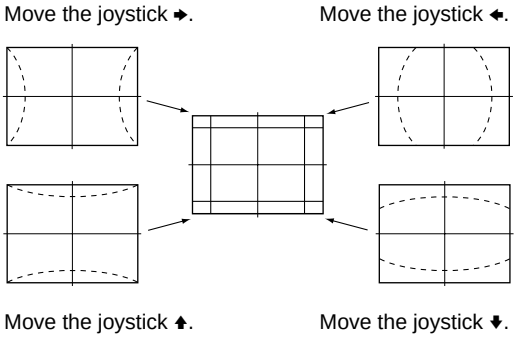
• GRN MLIN (horizontally)



Note: The SIZE and LIN, MSIZ and MLIN adjustments are affected each other.
So adjust these mutually if necessary.

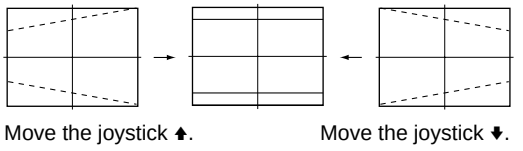
11) Select “GRN PIN”, and adjust so that right and left vertical lines on the screen become straight. Adjust so that upper and lower horizontal lines on the screen become straight.

• GRN PIN (horizontally/vertically)



12) Select “GRN KEY”, and adjust so that upper and lower horizontal lines on the screen become parallel.

• GRN KEY (vertically)



Note: The VPINand KEY adjustments are affected each other.
So adjust these mutually if necessary.

13) Press "⑨" button on the commander to enter the fine adjustment mode.
14) Make fine adjustment so that horizontal lines and vertical lines become straight.
15) Press "⑨" button on the commander to return to the rough adjustment mode.

2. Red Adjustment

1) Place a cap on the blue lens so that green and red colors are displayed.
2) Press "③" button on the commander to select RED mode.
3) Adjust the following items so that red lines overlap with green lines.

• RED CENT (horizontally/vertically)
• RED SKEW (horizontally/vertically)
• RED SIZE (horizontally/vertically)
• RED LIN (horizontally/vertically)
• RED MSIZ (horizontally)
• RED MLIN (horizontally)
• RED PIN (horizontally/vertically)
• RED KEY (vertically)

4) Press "⑨" button on the commander to enter the fine adjustment mode.
5) Make fine adjustment so that horizontal lines and vertical lines overlap with green lines.
6) Press "⑨" button on the commander to return to the coarse adjustment mode.

3. Blue Adjustment

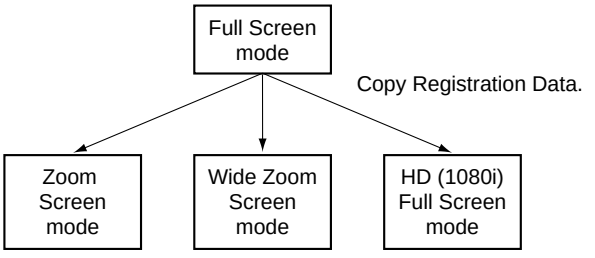
1) All colors are displayed.
2) Press "③" button on the commander to select BLU mode.
3) Hereinafter, use same manner as that of red adjustment to adjust so that the blue lines overlap with green and red lines.

4. Registration Data Writing

1) After each adjustment of green, blue, and red for the NTSC Full mode finished, press "MUTING"+ "ENTER" buttons on the commander to write registration data to the NVM.

<Copy All Registration Data to Other modes>

1. Make sure that the adjustment for NTSC Full mode finished and the data have already been written.
2. Select the "PJE" mode.
3. Select "02 ALCP" and set the data to "01", and press "MUTING"+"ENTER" buttons on the commander.
4. The data of NTSC Full mode are copied to all other modes.



5. Check in the other mode and adjust as the occasion demands. Be sure to write data in each mode.

3-12. AUTO REGISTRATION OFFSET

This adjustment must be performed after the registration adjustment was made or after readjustment was made by any reason.

1. Darken the periphery of this set.
2. Enter the monoscope signal to set the NTSC Full mode.
3. Select the PJE mode.
4. Press "FLASH FOCUS" button on the front panel of the set. (The offset value is now automatically stored)
5. Select " ERR" of PJE mode. Confirm ERR is "000". If ERR is not "000", recheck. (Refer to 3-13.)
6. Exit the service mode.

3-13. AUTO REGISTRATION ERROR CODE LIST

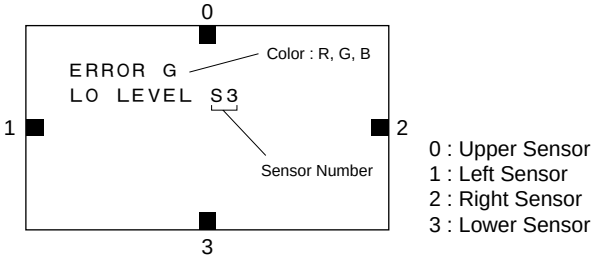
If an error code is displayed after the set has been fully adjusted, correctly, plese check the following items : position, tilt and sizing. If either of these adjustments are off, even slightli, the auto registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns is being flashed on the screen for the sensor to read. Therefore, auto registration (called auto convergence) cannot operate properly causing an error code to be displayed. In order for this function to operate properly, correct position, tilt and size must be adjusted properly.

ERROR CODE LIST

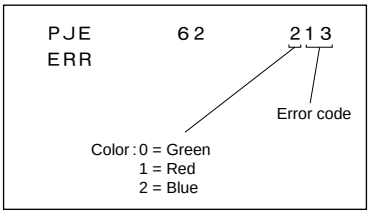
ERROR CODE	DESCRIPTION	REMEDY
00	No Error	
10	Sensor 0 low output	Check sensor 0, connection/wiring, circuit, and pattern position
		(Are patterns hitting sensor ?) Adjust “64 VUP” if necessary.
11	Sensor 1 low output	Check sensor 1, connection/wiring, circuit, and pattern position
		(Are patterns hitting sensor ?) Adjust “69 HLE” if necessary.
12	Sensor 2 low output	Check sensor 2, connection/wiring, circuit, and pattern position
		(Are patterns hitting sensor ?) Adjust “73 HRIV” if necessary.
13	Sensor 3 low output	Check sensor 3, connection/wiring, circuit, and pattern position
		(Are patterns hitting sensor ?) Adjust “68 VLOW” if necessary.
20	Sensor 0 high output	Check sensor 0 and circuit.
21	Sensor 1 high output	Check sensor 1 and circuit.
22	Sensor 2 high output	Check sensor 2 and circuit.
23	Sensor 3 high output	Check sensor 3 and circuit.
30	V CENT or SKEW adjustment loop overflow	Check “66 VMID” data and check registration condition.
31	H CENT or SKEW adjustment loop overflow	Check “71 HMID” data and check registration condition.
32	H LIN or SIZE adjustment loop overflow	Check “69 HLE” and “73 HRIV” data and check registration condition.
40	V CENT regi data overflow	Check “66 VMID” data and confirm V CENT data (all mode) is not near 511.
41	H CENT regi data overflow	Check “71 HMID” data and confirm H CENT data (all mode) is not near 511.
42	V SKEW regi data overflow	Check “66 VMID” data and confirm V SKEW data (all mode) is not near 511.
43	H SKEW regi data overflow	Check “71 HMID” data and confirm H SKEW data (all mode) is not near 511.
44	H LIN regi data overflow	Check “69 HLE” and “73 HRIV” data and confirm H CENT data (all mode) is not near 511.
45	H SIZE regi data overflow	Check “69 HLE” and “73 HRIV” data and confirm V CENT data (all mode) is not near 511.
50	V CENT regi data overdrow	Check “66 VMID” data and confirm V CENT data (all mode) is not near –512.
51	H CENT regi data overdrow	Check “71 HMID” data and confirm H CENT data (all mode) is not near –512.
52	V SKEW regi data overdrow	Check “66 VMID” data and confirm V SKEW data (all mode) is not near –512.
53	H SKEW regi data overdrow	Check “71 HMID” data and confirm H SKEW data (all mode) is not near –512.
54	H LIN regi data overdrow	Check “69 HLE” and “73 HRIV” data and confirm H CENT data (all mode) is not near –512.
55	H SIZE regi data overdrow	Check “69 HLE” and “73 HRIV” data and confirm V CENT data (all mode) is not near –512.
60	H or V CENT offset overflow	Check “71 HMID” data and check “66 VMID” data.
61	H or V SKEW offset overflow	Check SKEW adjustment.
62	H SIZE or LIN offset overflow	Check “69 HLE” and “73 HRIV” data and check SIZE and LIN adjustment.
70	H or V CENT offset overdrow	Check “71 HMID” data and check “66 VMID” data.
71	H or V SKEW offset overdrow	Check SKEW adjustment.
72	H SIZE or LIN offset overdrow	Check “69 HLE” and “73 HRIV” data and check SIZE and LIN adjustment.
80	Size limit error	Check that H SIZE data is negative and not near 0.

[Error Code Screen Display]

- When executing flash focus in service mode, the error will be displayed in text format.
  (Example : Green Low Level Sensor 3)



- Error codes in normal (customer) mode are not displayed. You must enter PJE service mode to see the error code.
  (Example : Blue Low Level Sensor 3)



SECTION 4
CIRCUIT ADJUSTMENTS

4-1. 480p Y, PB, PR GAIN ADJUSTMENT

1. Receive the 100 % color bar (480p, 0% setup, component) signal with VIDEO 5 input.
   (White to Black Level : 700 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ1 pin (V_MIDI_Y), Ⓐ2 pin (V_MIDI_PB), Ⓐ3 pin (V_MIDI_PR) on the B board and ground.
3. Set in the service mode and select the category “CXA2151”.
4. Adjust “5 YGN” , “3 CBGN” and “4 CRGN” so that the waveform level is 1.400 ±0.035 Vp-p.
5. After adjustment finished, press “MUTING” + “ENTER” buttons on the commander to write the data to the NVM.

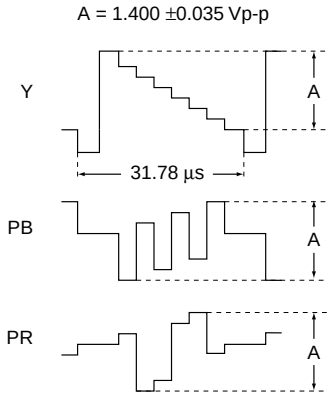


Fig. 4-1

4-2. MAIN Y/C LEVEL ADJUSTMENT (FOR THE DRC PATH)

1. Receive the 100 % color bar (480i, 0% setup, component) signal with VIDEO 5 input.
   (White to Black Level Y : 714 ±10 mVp-p, PB, PR : 700 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ5 pin (V_DRCI_Y), Ⓐ6 pin (V_DRCI_PB) on the B board and ground.
3. Set in the service mode and select the category “2103-1”.
4. Adjust “0 YLEV” and “1 CLEV” so that the waveform levels are 1.400 ±0.015 Vp-p and 1.490 ±0.015 Vp-p.
5. After adjustment finished, press “MUTING” + “ENTER” buttons on the commander to write the data to the NVM.

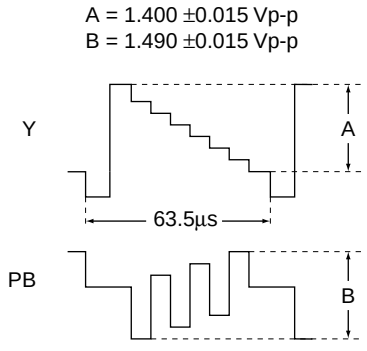


Fig. 4-2

4-3. MAIN Y/C LEVEL ADJUSTMENT (FOR THE VDO PATH)

1. Receive the 100 % color bar (480i, 0% setup, component) signal with VIDEO 5 input.
   (White to Black Level Y : 714 ±10 mVp-p, PB, PR : 700 ±10 mVp-p)
2. Connect CN005 Ⓐ9 pin (MN_SB_SW) on the B board to 5 V.
3. Connect the oscilloscope between CN005 Ⓐ1 pin (V_MIDI_Y), Ⓐ2 pin (V_MIDI_PB) on the B board and ground.
4. Set in the service mode and select the category “2103-1”.
5. Adjust “0 YLEV” and “1 CLEV” so that the waveform levels are 1.400 ±0.015 Vp-p.
6. After adjustment finished, press “MUTING” + “ENTER” buttons on the commander to write the data to the NVM.

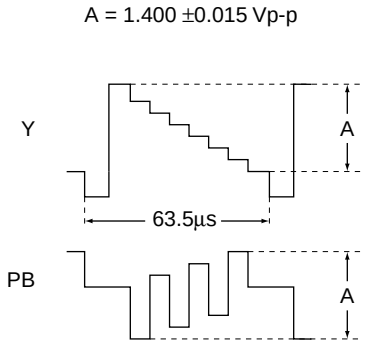


Fig. 4-3

4-4. SUB Y/C LEVEL ADJUSTMENT (FOR THE DRC PATH)

1. Receive the 100 % color bar (480i, 0% setup, component) signal with VIDEO 5 input.
   (White to Black Level Y : 714 ±10 mVp-p, PB,PR : 700 ±10 mVp-p)
2. Connect CN005 Ⓐ⑨ pin (MN_SB_SW) on the B board to 5 V.
3. Connect the oscilloscope between CN005 Ⓐ⑤ pin (V_DRCI_Y), Ⓐ⑥ pin (V_DRCI_PB) on the B board and ground.
4. Set in the service mode and select the category “2103-2”.
5. Adjust “0 YLEV” and “1 CLEV” so that the waveform levels are 1.400 ±0.015 Vp-p and 1.490 ±0.015 Vp-p.
6. After adjustment finished, press “MUTING” + “ENTER” buttons on the commander to write the data to the NVM.

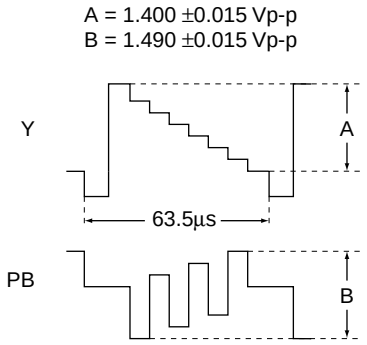


Fig. 4-4

4-5. SUB Y/C LEVEL ADJUSTMENT (FOR THE VDO PATH)

1. Receive the 100 % color bar (480i, 0% setup, component) signal with VIDEO 5 input.
   (White to Black Level Y : 714 ±10 mVp-p, PB,PR : 700 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ① pin (V_MIDI_Y), Ⓐ② pin (V_MIDI_PB) on the B board and ground.
3. Set in the service mode and select the category “2103-2”.
4. Adjust “0 YLEV” and “1 CLEV” so that the waveform levels are 1.400 ±0.015 Vp-p.
5. After adjustment finished, press “MUTING” + “ENTER” buttons on the commander to write the data to the NVM.

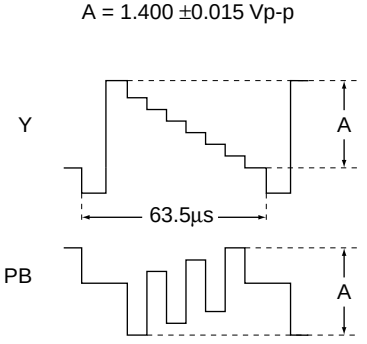


Fig. 4-5

4-6. MAIN DECODER SUB CONTRAST ADJUSTMENT (FOR COMPOSITE AND Y/C INPUTS)

1. Receive the 100 % color bar (480i, 7.5% setup, Y/C) signal with VIDEO 3 input. (White to Black Level Y : 714 ±10 mVp-p, Burst Level C : 285 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ⑤ pin (V_DRCI_Y) on the B board and ground.
3. Set in the service mode and select the category “2103-1”.
4. Adjust “2 SCON” so that the waveform level is 1.400 ±0.035 Vp-p.
5. After adjustment finished, press “MUTING” + “ENTER” buttons on the commander to write the data to the NVM.

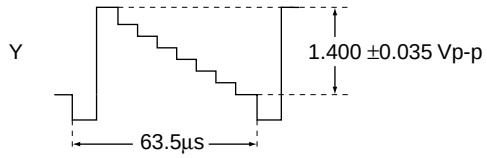


Fig. 4-6

4-7. MAIN DECODER SUB COLOR AND SUB HUE ADJUSTMENT (FOR COMPOSITE AND Y/C INPUTS)

1. Receive the 100 % color bar (480i, 7.5% setup, Y/C) signal with VIDEO 3 input. (White to Black Level Y : 714 ±10 mVp-p, Burst Level C : 285 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ⑥ pin (V_DRCI_PB) on the B board and ground.
3. Set in the service mode and select the category “2103-1”.
4. Adjust “3 SCOL” and “4 SHUE” so that the waveform levels are 1.490 ±0.040 Vp-p and 0.248 ±0.035 Vp-p.
5. After adjustment finished, press “MUTING” + “ENTER” buttons on the commander to write the data to the NVM.

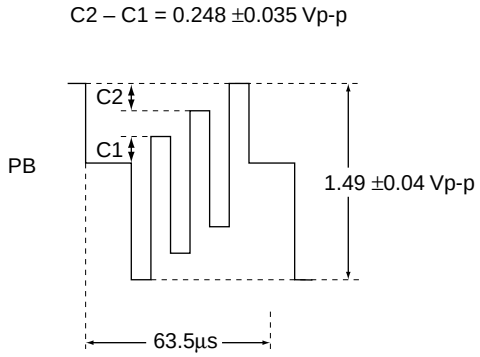


Fig. 4-7

4-8. SUB DECODER SUB CONTRAST ADJUSTMENT (FOR Y/C INPUT)

1. Receive the 100 % color bar (480i, 7.5% setup, Y/C) signal with VIDEO 3 input. (White to Black Level Y : 714 ±10 mVp-p, Burst Level C : 285 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ1 pin (V_MIDI_Y) on the B board and ground.
3. Set in the service mode and select the category "2103-2".
4. Adjust "2 SCON" so that the waveform level is 1.400 ±0.035 Vp-p.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

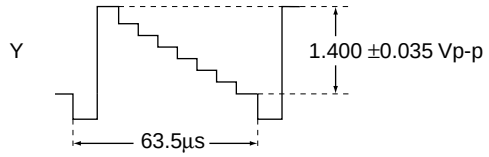


Fig. 4-8

4-9. SUB DECODER SUB COLOR AND SUB HUE ADJUSTMENT (FOR Y/C INPUT)

1. Receive the 100 % color bar (480i, 7.5% setup, Y/C) signal with VIDEO 3 input. (White to Black Level Y : 714 ±10 mVp-p, Burst Level C : 285 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ2 pin (V_MIDI_PB) on the B board and ground.
3. Set in the service mode and select the category "2103-2".
4. Adjust "3 SCOL" and "4 SHUE" so that the waveform levels are 1.400 ±0.040 Vp-p and 0.248 ±0.035 Vp-p.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

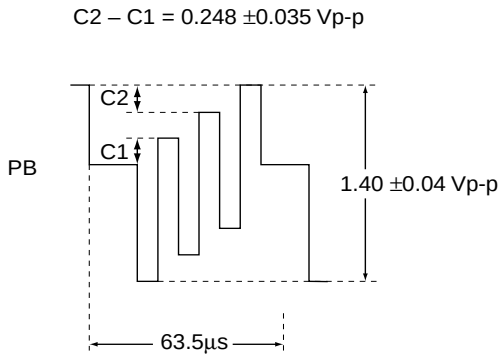


Fig. 4-9

4-10. SUB DECODER SUB CONTRAST ADJUSTMENT (FOR COMPOSITE INPUT)

1. Receive the 100 % color bar (480i, 7.5% setup, composite) signal with VIDEO 1 input.
   (Wite to Black Level : 714±10 mVp-p, Burst Level : 285±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ1 pin (V_MIDI_Y) on the B board and ground.
3. Set in the service mode and select the category "2103-2".
4. Adjust "22 2SCO" so that the waveform level is 1.400 ±0.035 Vp-p.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

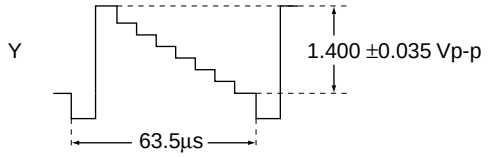


Fig. 4-10

4-11. SUB DECODER SUB COLOR AND SUB HUE ADJUSTMENT (FOR COMPOSITE INPUT)

1. Receive the 100 % color bar (480i, 7.5% setup, composite) signal with VIDEO 1 input.
   (Wite to Black Level : 714±10 mVp-p, Burst Level : 285±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ2 pin (V_MIDI_PB) on the B board and ground.
3. Set in the service mode and select the category "2103-2".
4. Adjust "23 2SCL" and "24 2SHU" so that the waveform levels are 1.400 ±0.040 Vp-p and 0.248 ±0.035 Vp-p.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

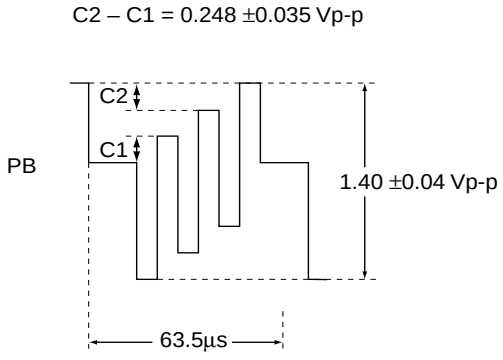


Fig. 4-11

4-12. MAIN DECODER PB AND PR OFFSET ADJUSTMENT

1. Receive the all white (480i, 7.5% setup, composite) signal with VIDEO 1 input. (White to Black Level : 714 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ6 pin (V_DRCI_PB), Ⓐ7 pin (V_DRCI_PR) on the B board and ground.
3. Set in the service mode and select the category "2103-1".
4. Adjust "20 CBOF" and "21 CROF" so that the waveform level is 0.000 ±0.003 Vp-p.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.
6. Turn the all white (480i, 0% setup, component) signal with VIDEO 5 input.
   (White to Black Y : Level : 714 ±10 mVp-p, Pb,Pr : 0 Vp-p)
7. Adjust "20 CBOF" and "21 CROF" so that the waveform level is 0.000 ±0.003 Vp-p.
8. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

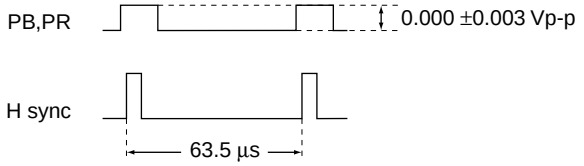


Fig. 4-12

4-13. SUB DECODER PB AND PR OFFSET ADJUSTMENT

1. Receive the all white (480i, 7.5% setup, composite) signal with VIDEO 1 input. (White to Black Level : 714 ±10 mVp-p)
2. Connect the oscilloscope between CN005 Ⓐ2 pin (V_MIDI_PB), Ⓐ3 pin (V_MIDI_PR) on the B board and ground.
3. Set in the service mode and select the category "2103-2".
4. Adjust "20 CBOF" and "21 CROF" so that the waveform level is 0.000 ±0.003 Vp-p.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

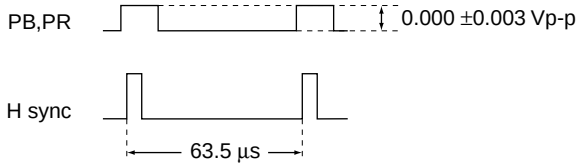


Fig. 4-13

4-14. BLUE OFFSET ADJUSTMENT

1. Receive the all black (1080i, component) signal with VIDEO 5 input, and set PICTURE to maximum.
2. Connect the oscilloscope between CN3009 ⑦ pin (B) on the A board and ground.
3. Set in the service mode and select the category "2150D-2".
4. Adjust "3 SLIN" so that the waveform level is 2.20 ±0.05 Vp-p.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.
6. Receive the RF signal and change the wide mode to "Wide Zoom". Copy the same data to "3 SLIN".

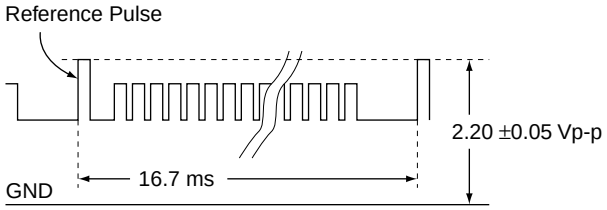


Fig. 4-14

4-15. SUB CONTRAST ADJUSTMENT

1. Receive the 1/25 window (1080i, component) signal with VIDEO 5 input, and set PICTURE to maximum.
2. Connect the oscilloscope between CN3009 ⑥ pin (G) on the A board and ground.
3. Set in the service mode and select the category "2150P-4".
4. Adjust "0 SCON" so that the waveform level is 2.30 ±0.05 Vp-p.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.
6. Receive the 1/25 window (1080i, DTV) signal.
7. Adjust "0 SCON" so that the waveform level is 2.30 ±0.05 Vp-p.
8. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

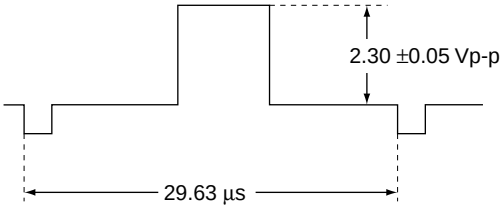


Fig. 4-15

4-16. SUB COLOR AND SUB HUE ADJUSTMENT

1. Receive the 100 % color bar (1080i, component) signal with VIDEO 5 input, and set PICTURE to maximum.
2. Connect the oscilloscope between CN3009 ⑦ pin (B) on the A board and ground.
3. Set in the service mode and select the category "2150P-4".
4. Adjust "1 SCOL" and "2 SHUE" so that the waveform levels are VB1 = VB4 and VB2 = VB3.
5. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.
6. Receive the 100 % color bar (1080i, DTV) signal.
7. Adjust "1 SCOL" and "2 SHUE" so that the waveform levels are VB1 = VB4 and VB2 = VB3.
8. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

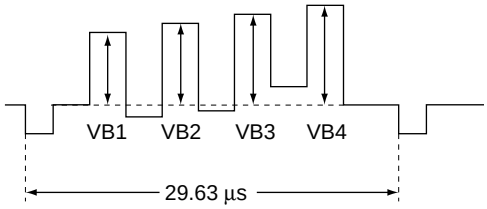


Fig. 4-16

4-17. RF SUB CONTRAST ADJUSTMENT

1. Press "◑ (TWIN)" button on the commander to set the TWIN mode, and set PICTURE to maximum, COLOR to minimum.
2. Receive the 75 % color bar (RF) signal on both side.
3. Connect the oscilloscope between CN3009 ⑥ pin (G) on the A board and ground.
4. Set in the service mode and select the category "MID1". Select the item "21 BCOL" and set the data to "1".
5. Select the category "2103-1".
6. Adjust "2 SCON" so that the left side waveform level is 1.59 ±0.05 Vp-p.
7. Select the category "2103-2".
8. Adjust "2 SCON" so that the right side waveform level is 1.59 ±0.05 Vp-p.
9. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

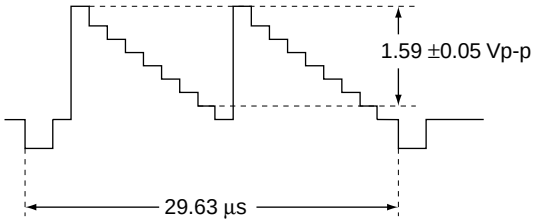


Fig. 4-17

4-18. RF SUB COLOR AND SUB HUE ADJUSTMENT

1. Press "◑ (TWIN)" button on the commander to set the TWIN mode, and set PICTURE to maximum.
2. Receive the 75 % color bar (RF) signal on both side.
3. Connect the oscilloscope between CN3009 ⑦ pin (B) on the A board and ground.
4. Set in the service mode and select the category "MID1". Select the item "21 BCOL" and set the data to "1".
5. Select the category "2103-1".
6. Adjust "3 SCOL" and "4 SHUE" so that the left side waveform levels are VB1 = VB4 and VB2 = VB3.
7. Select the category "2103-2".
8. Adjust "3 SCOL" and "4 SHUE" so that the right side waveform levels are VB5 = VB8 and VB6 = VB7.
9. After adjustment finished, press "MUTING" + "ENTER" buttons on the commander to write the data to the NVM.

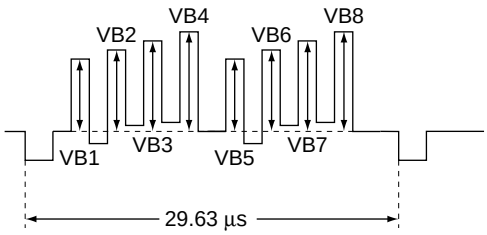


Fig. 4-18

SECTION 5
SAFETY RELATED ADJUSTMENTS

[D BOARD]

5-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram always check HV regulation, and if necessary re-adjust.

⧓: VR8001

◪: C8079, C8083, C8090, C8129, D8013, D8015, D8038, D8043, IC8006, Q8021, R8055, R8099, R8102, R8128, R8129, R8131, R8139, R8140, R8142, R8153, R8163, R8223, R8230, T8004 (LOT), T8005 (FBT), HV block, D board

OPERATION CHECK

1. Receive the all white signal.
2. Set PIC MAX/BRT CENT.
3. Confirm that the voltage between CN8015 ① pin and GND is less than 7.80VDC.

HV REGULATION ADJUSTMENT

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Repeat steps 1 and 2 as above.
4. Confirm that the static voltmeter reading is 31.0 ± 0.4V.
5. If not, adjust with VR8001 to the specified value.
6. After adjustment, put the VR cover on VR8001 as shown below and apply sufficient amount of epoxy resin around VR8001.

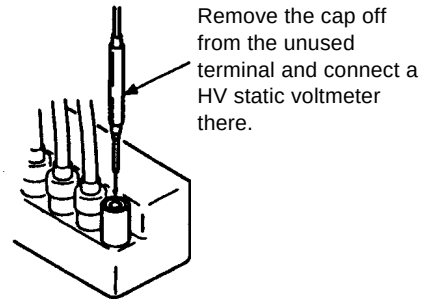


Fig. 5-1

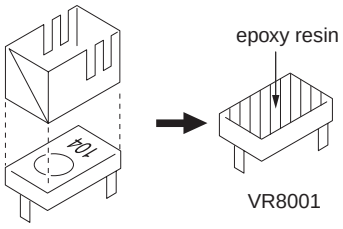


Fig. 5-2

5-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram always check hold-down voltage and if necessary re-adjust.

⧓: VR8002

◪: C8054, C8086, C8088, C8100, C8104, C8118, C8123, C8124, D8019, D8020, D8022, D8028, D8036, FB8001, IC8008, Q8035, Q8038, R8035, R8043, R8159, R8166, R8171, R8196, R8201, T8004 (LOT), T8005 (FBT), HV block, D board

OPERATION CHECK

1. Receive the dot signal.
2. Set PIC MIN/BRT MIN.
3. Confirm that the voltage between cathode of D8038 (JW171) and GND is more than 23.0V DC.
4. Using an external DC Power supply, apply the voltage shown below between cathode of D8038 (JW171) on "D" and GND, then confirm that the HV-Prot circuit works.(Raster disappears.) Apply DC voltage: Less than 29.05V DC.

HV HOLD-DOWN ADJUSTMENT

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Connet an externel 10k VR at CN8015 and adjust this VR so that the high voltoge is 34.50kV.
4. Adjust VR8002 to the point that the HV-Prot circuit works (Raster disappears) at 34.50 ± 0.50kV reading on the static voltmeter.
5. After adjustment, put the VR cover on VR8002 and apply sufficient amount of epoxy resin around VR8002 as the same manner for VR8001.

[G BOARD]

5-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC6101.

1. Supply 130VAC to variable autotransformer.
2. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
3. Confirm the voltage of TP6102 TP. +B 135V is less than 137.0Vdc.
4. If step 3 not satisfied , replace IC6101 and repeat above steps.

5-4. +B OVP CONFIRMATION

1. Add to low voltage power supply between to TP6101 TP. OVP and ground.
2. Supply 120VAC to variable autotransformer.
3. Power on the Set and receive dot signal pattern.
4. Set the PICTURE and BRIGHTNESS settings.
5. Check the OVP is activated. Operate : 2.60 ± 0.10V

SECTION 6
FIRMWARE UPGRADES

6-1. OVERVIEW

From time to time the KDP-57XBR2/65XBR2 may require an upgrade to its firmware.

The Q-box inside the set allows for upgrading the firmware via a Memory Stick® slot. At such times that upgrades are required, pre-programmed Memory Sticks will be made available to the service network. Be sure to check the Sony Service Company's web site to see if any upgrades are available for correcting the problems you are trying to resolve.

DISCLAIMER:

Any use of the Memory Stick port for any reason other than a Sony authorized upgrade will void the product warranty. All related repair charges will be the responsibility of the customer.

6-2. TRANSFERRING THE NEW FIRMWARE FROM THE MEMORY STICK TO THE Q-BOX.

1. Turn the PJ on.
2. Insert the Memory Stick containing the new firmware into the Memory Stick slot on the back of the set.
3. If the inserted Memory Stick is the correct type, and its files are correct for the KD-57XBR2/65XBR2 and are not damaged (corrupted), the upgrade process will begin automatically. The screen will display "Memory Upgrade Mode" for 3 seconds, after which the screen will go black until the upgrade is completed.

NOTE: The user controls are inoperative while this upgrade is in progress.

4. A status LED is located above the Memory Stick slot. This LED will flash in several distinct patterns dependent upon the status of the upgrade, as follows:

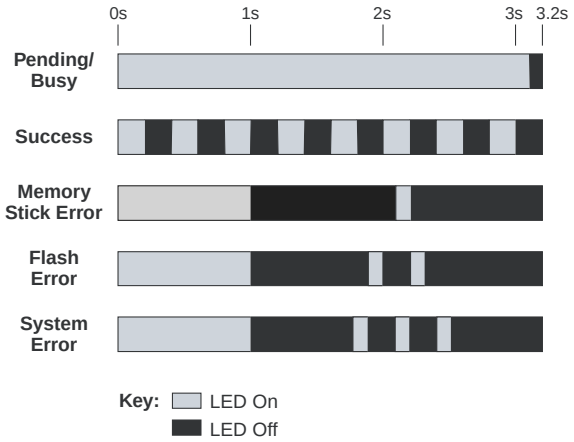
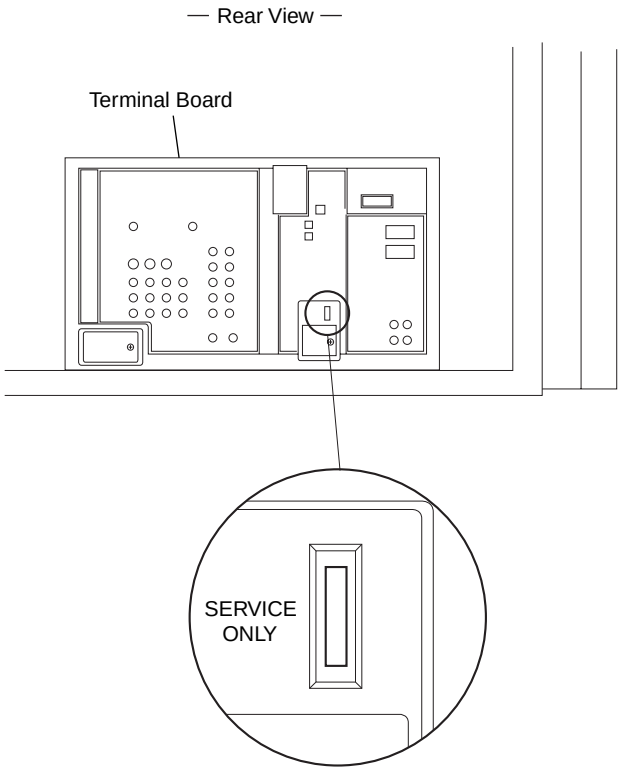


Fig. 6-1

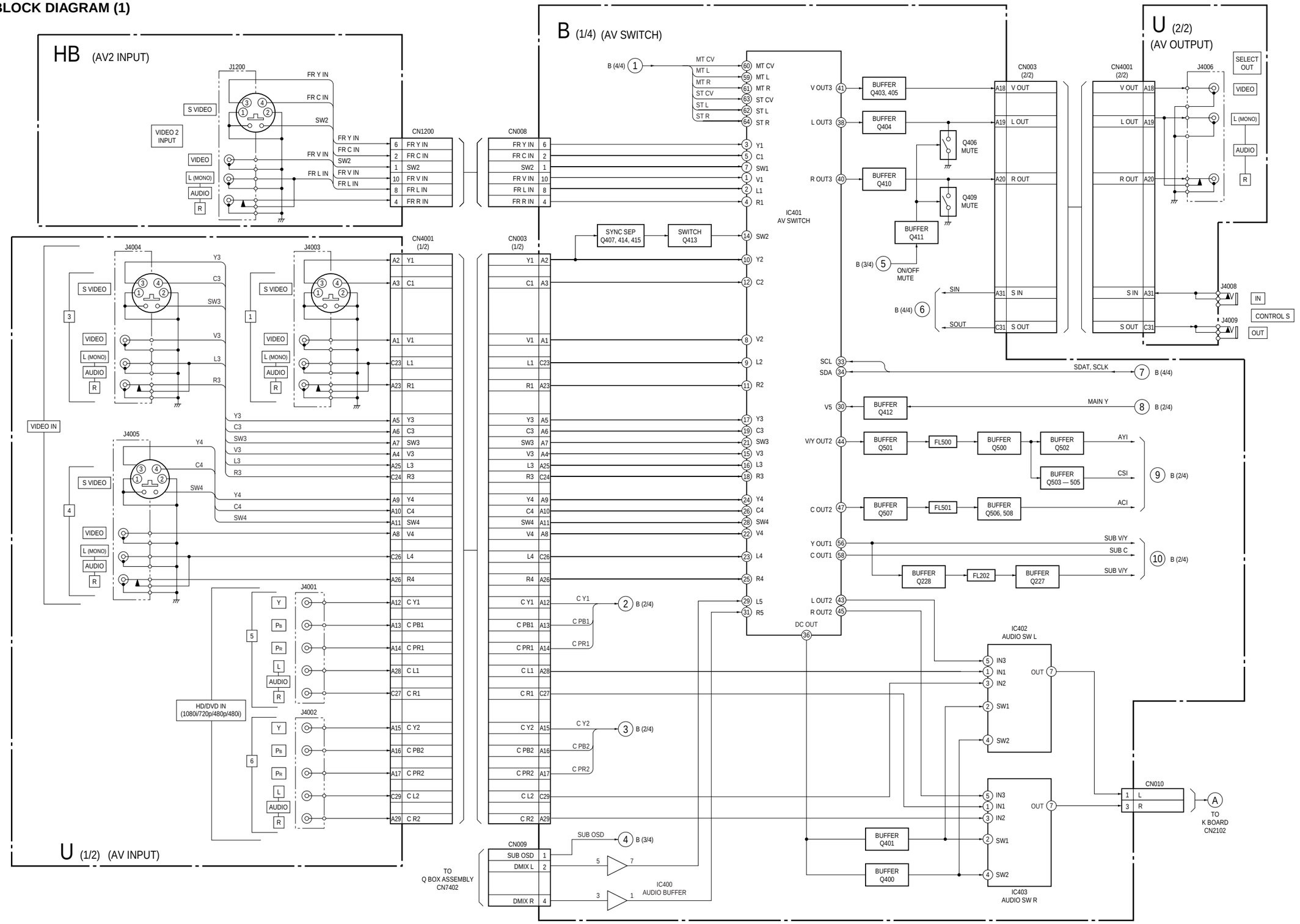
5. When the status LED flashes the "Success" pattern shown Fig. 6-1, the upgrade has completed successfully. Remove the Memory Stick and the set will return to the operating state it was in before the upgrade began.
6. If the status LED flashes the "Flash Error" (flash memory) pattern or the "System Error" pattern shown above, remove the Memory Stick and start over again from step 1.
7. If the status LED flashes the "Memory Stick Error" pattern you must obtain a new Memory Stick and start over from step 1.



Memory Stick Input Location

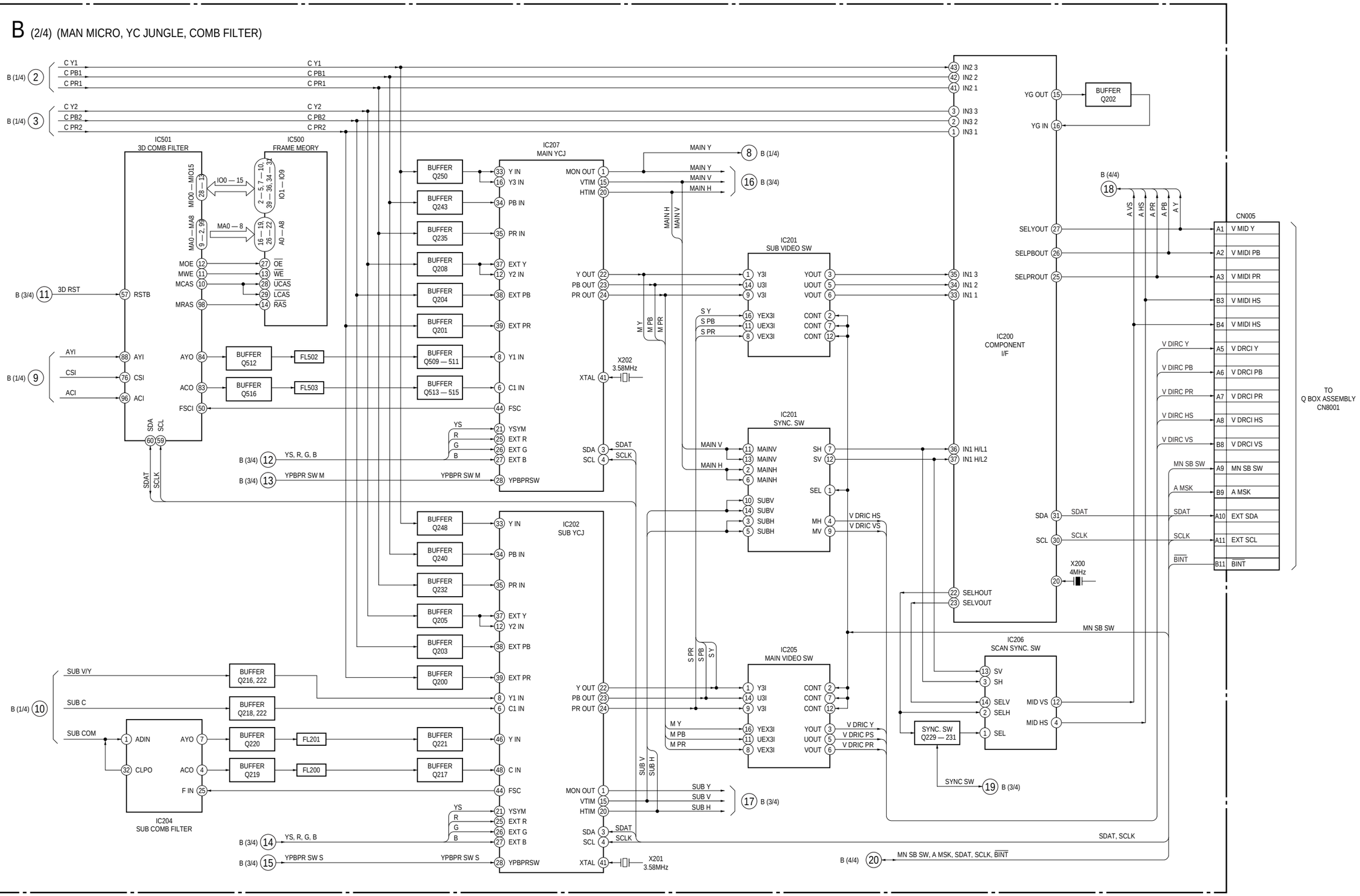
Fig. 6-2

7-1. BLOCK DIAGRAM (1)



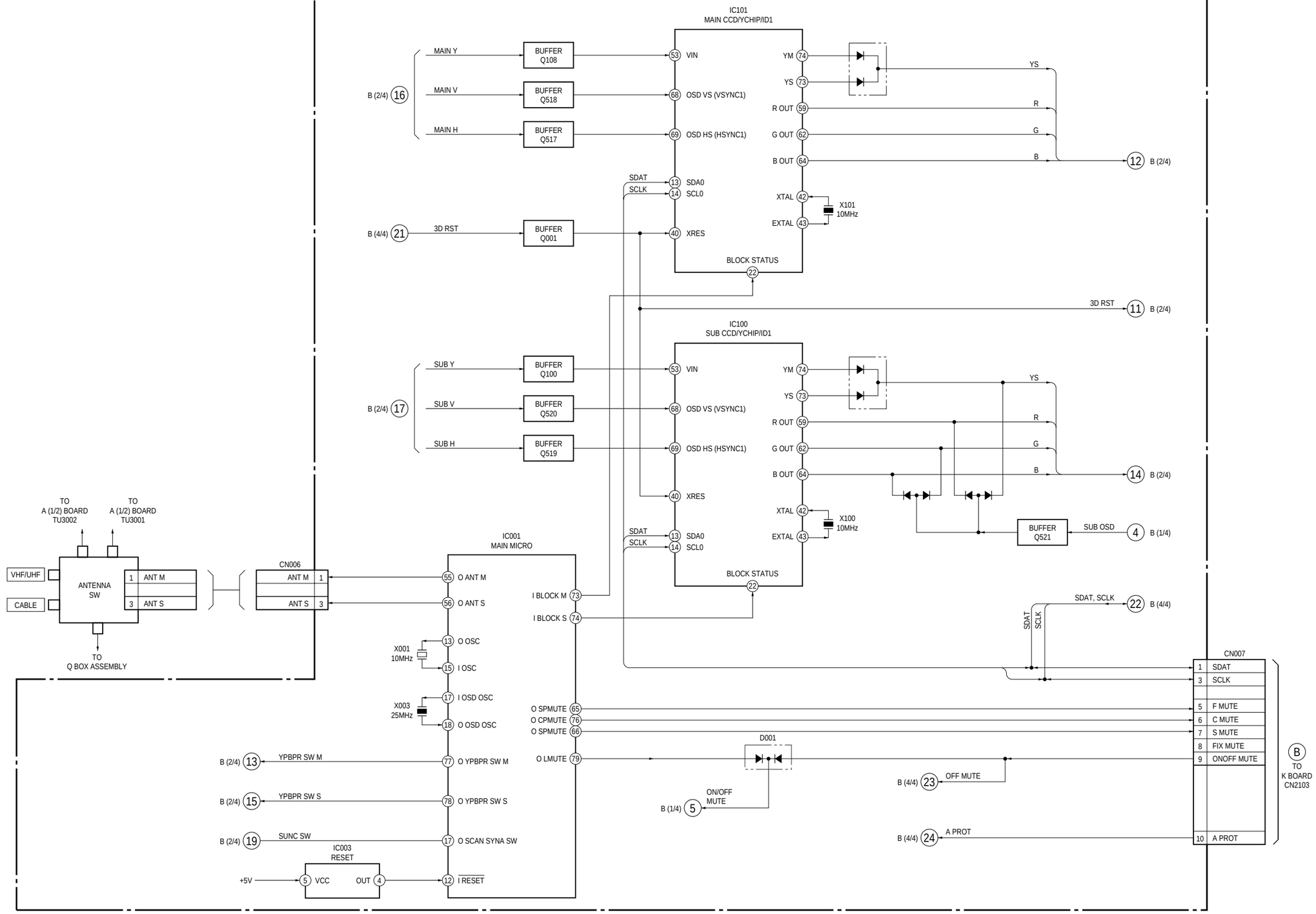
BLOCK DIAGRAM (2)

B (2/4) (MAN MICRO, YC JUNGLE, COMB FILTER)

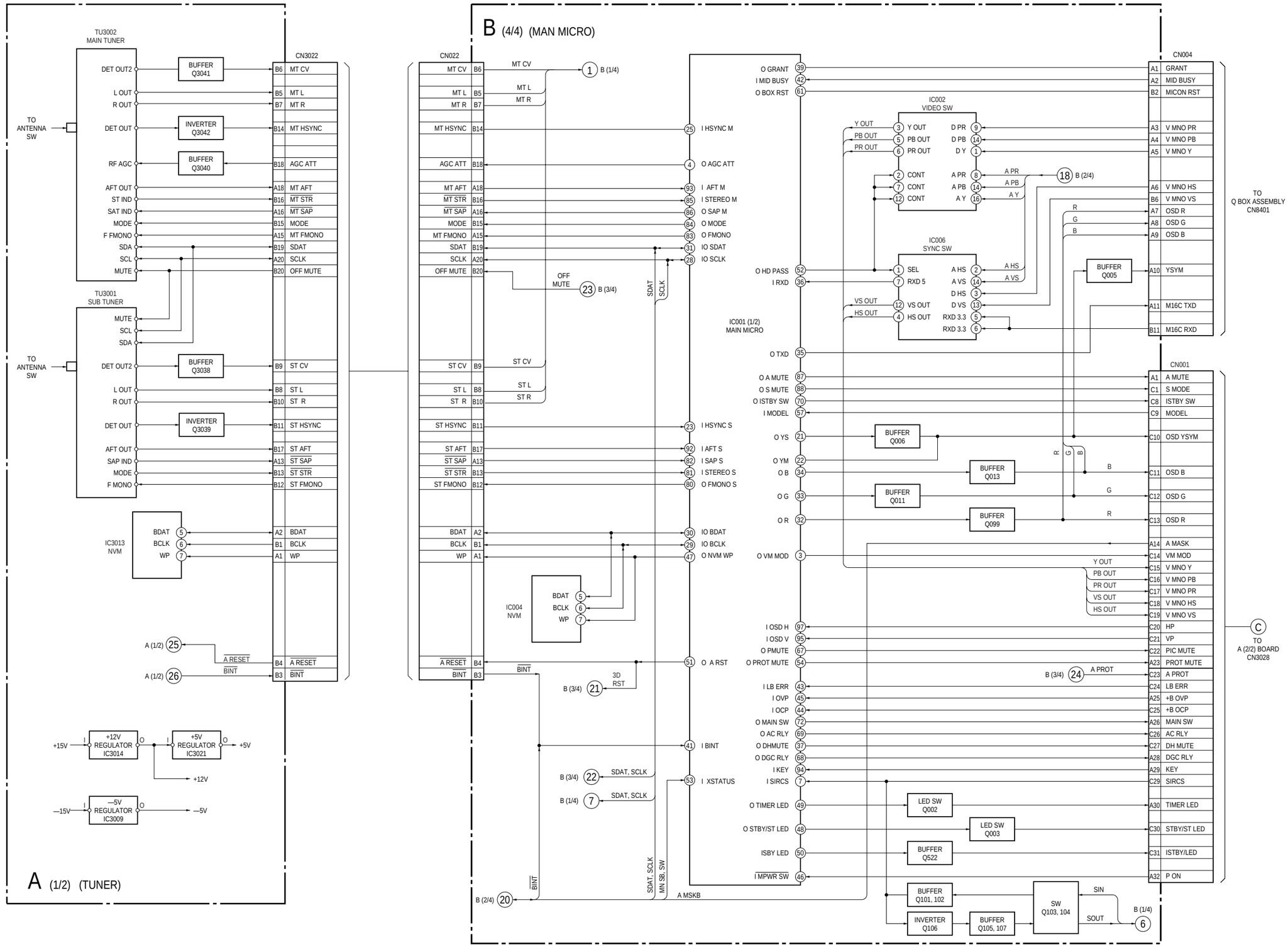


BLOCK DIAGRAM (3)

B (3/4) (MAN MICRO, CCD/VCHIP/IDI)

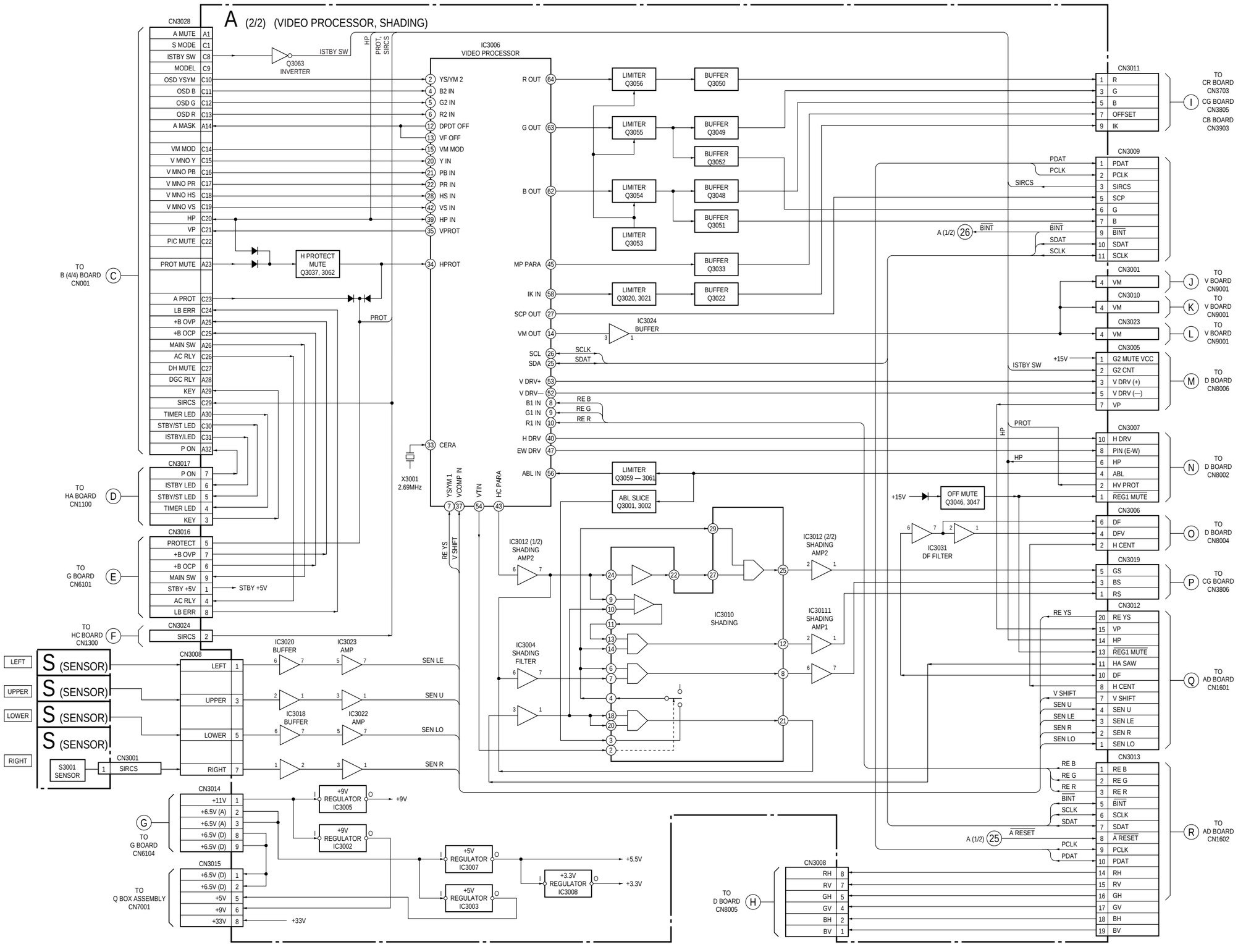


BLOCK DIAGRAM (4)

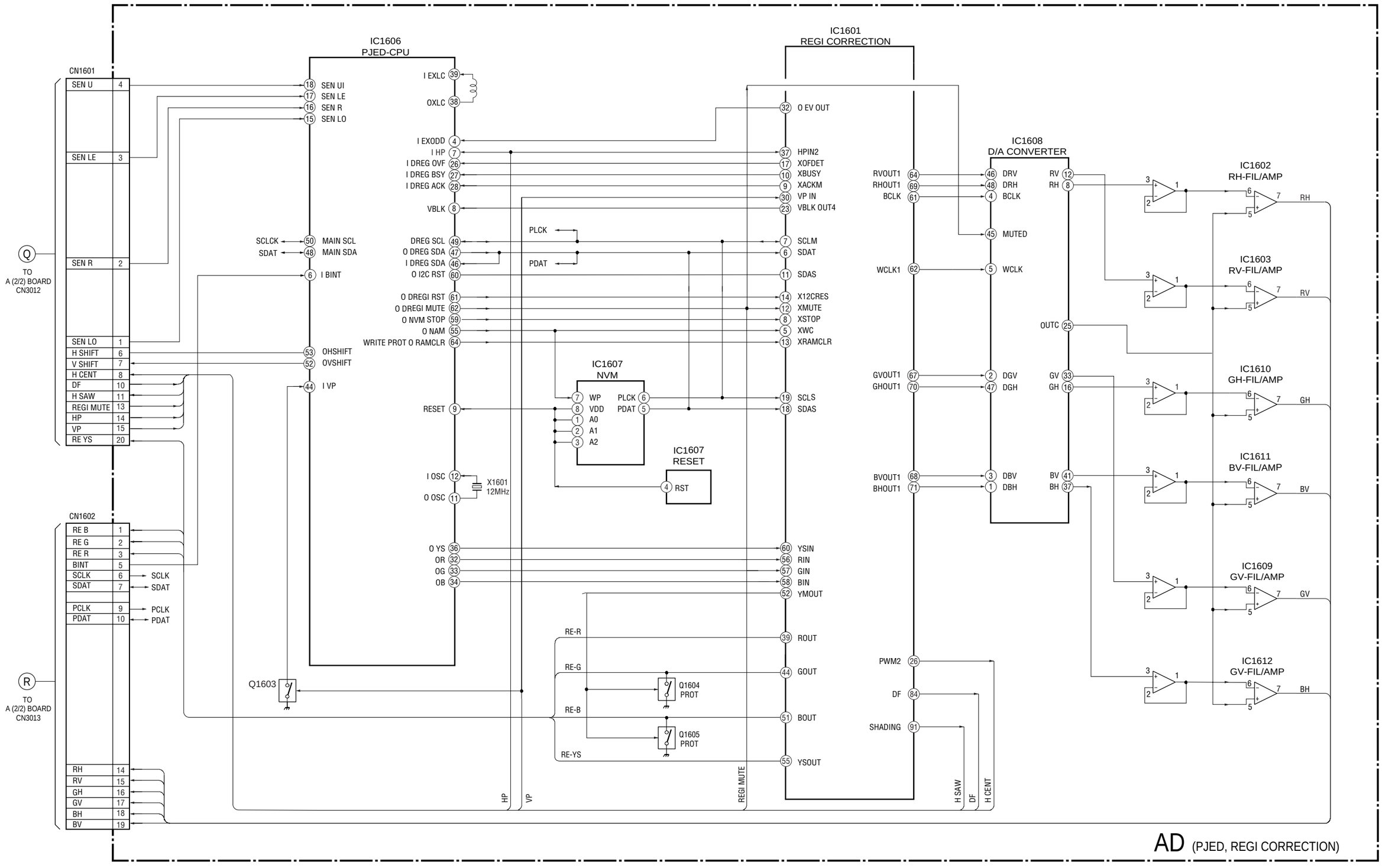


BLOCK DIAGRAM (5)

A (2/2) (VIDEO PROCESSOR, SHADING)

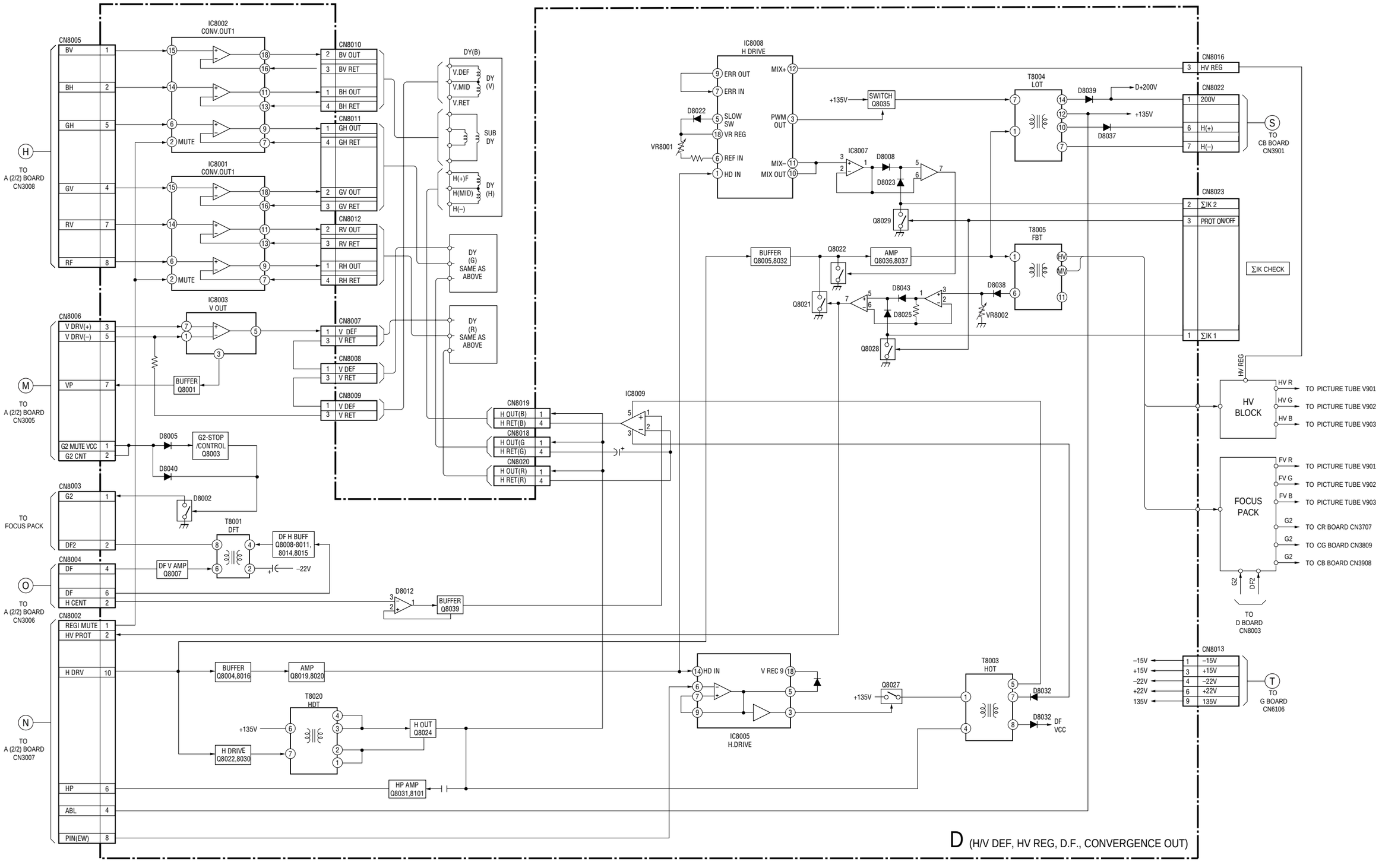


BLOCK DIAGRAM (6)

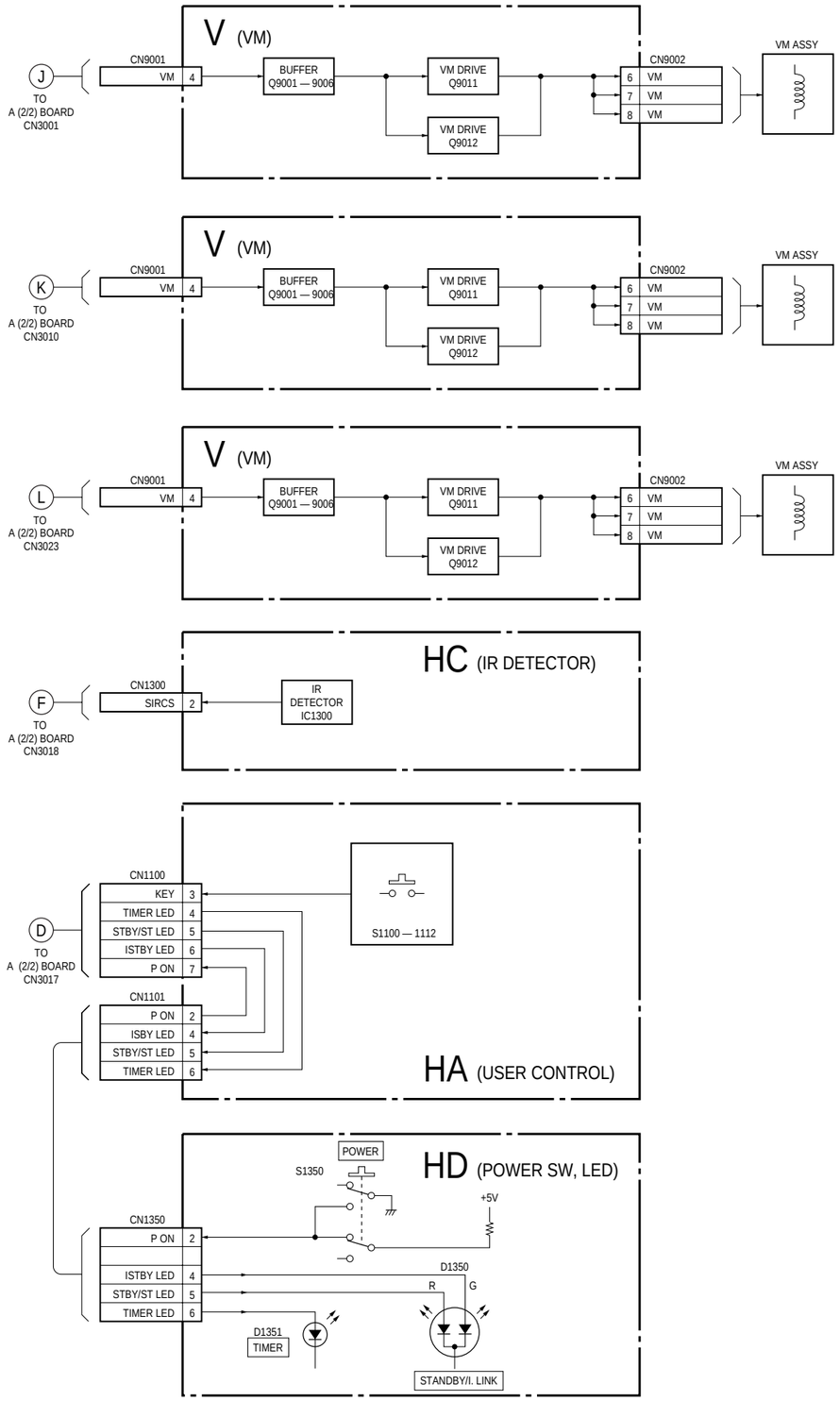


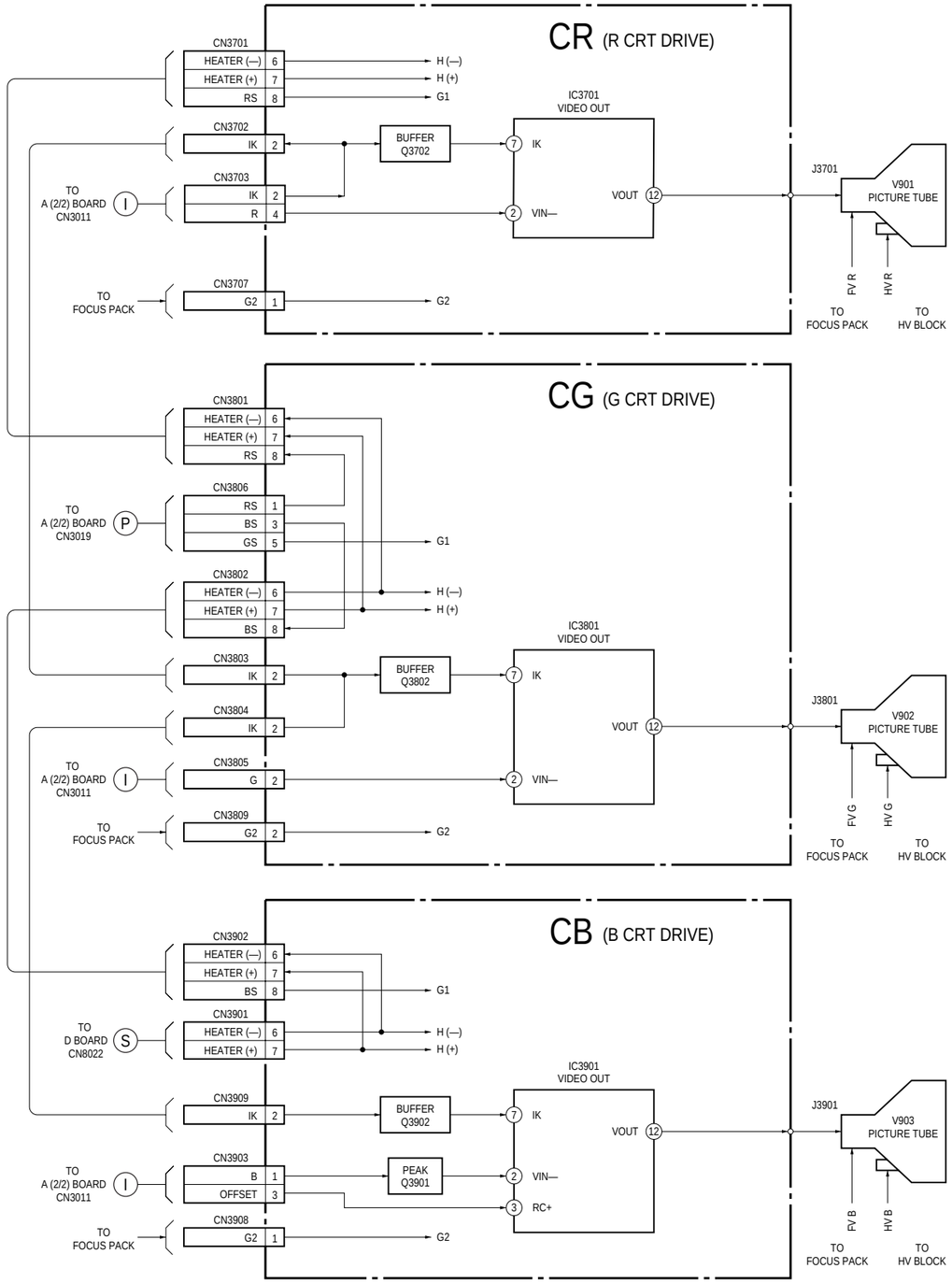
AD (PJED, REGI CORRECTION)

BLOCK DIAGRAM (7)

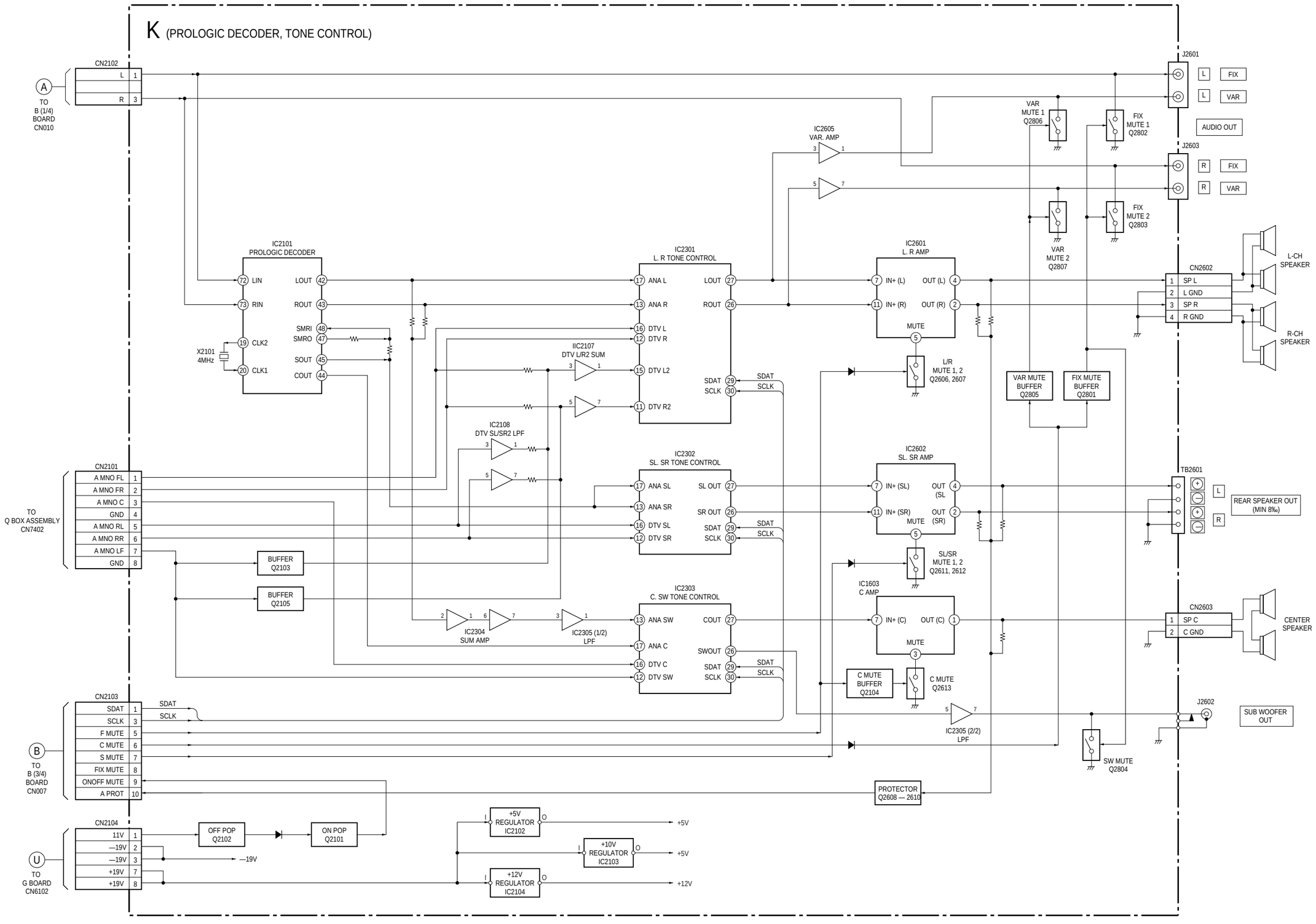


BLOCK DIAGRAM (8)

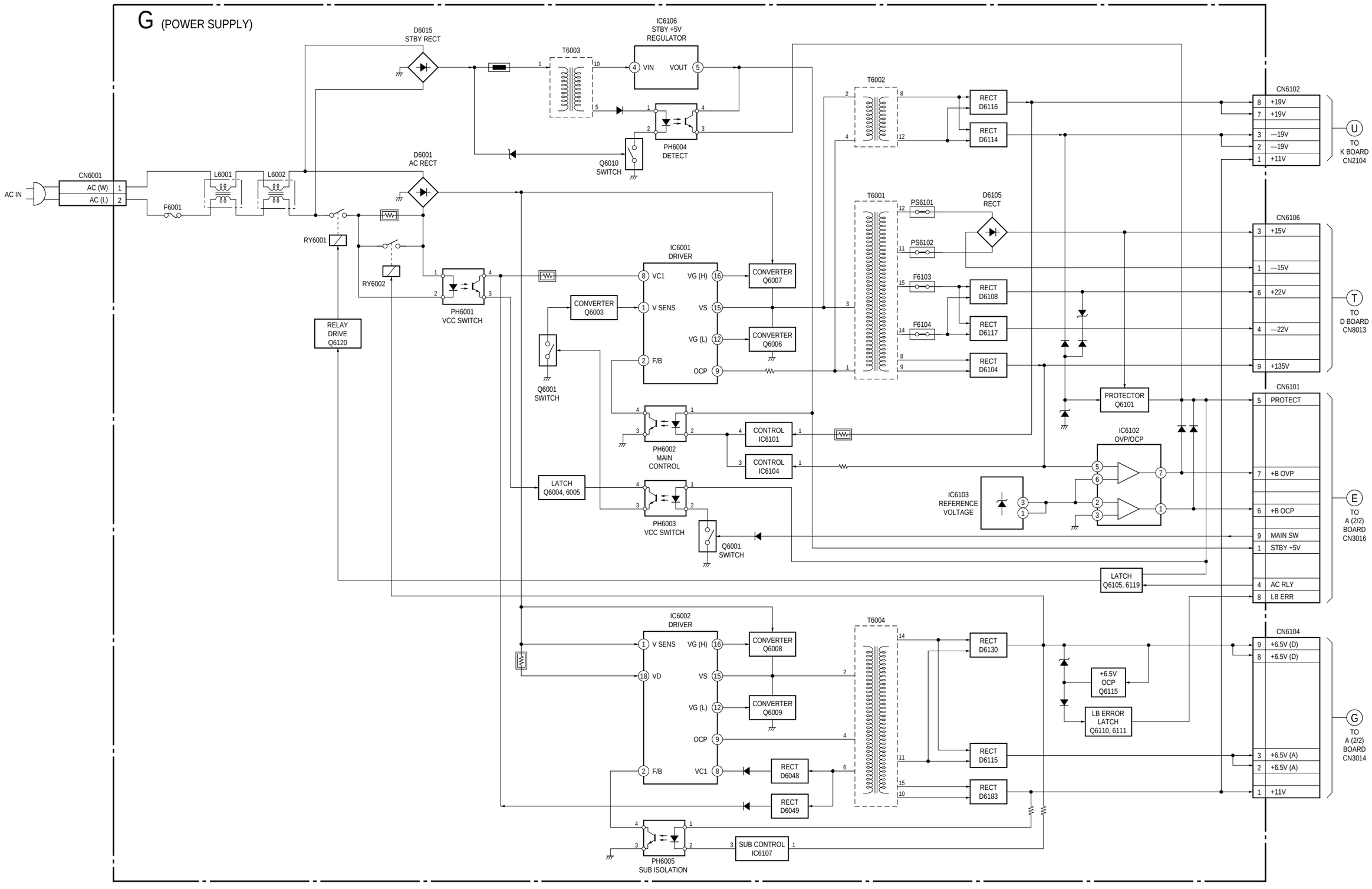


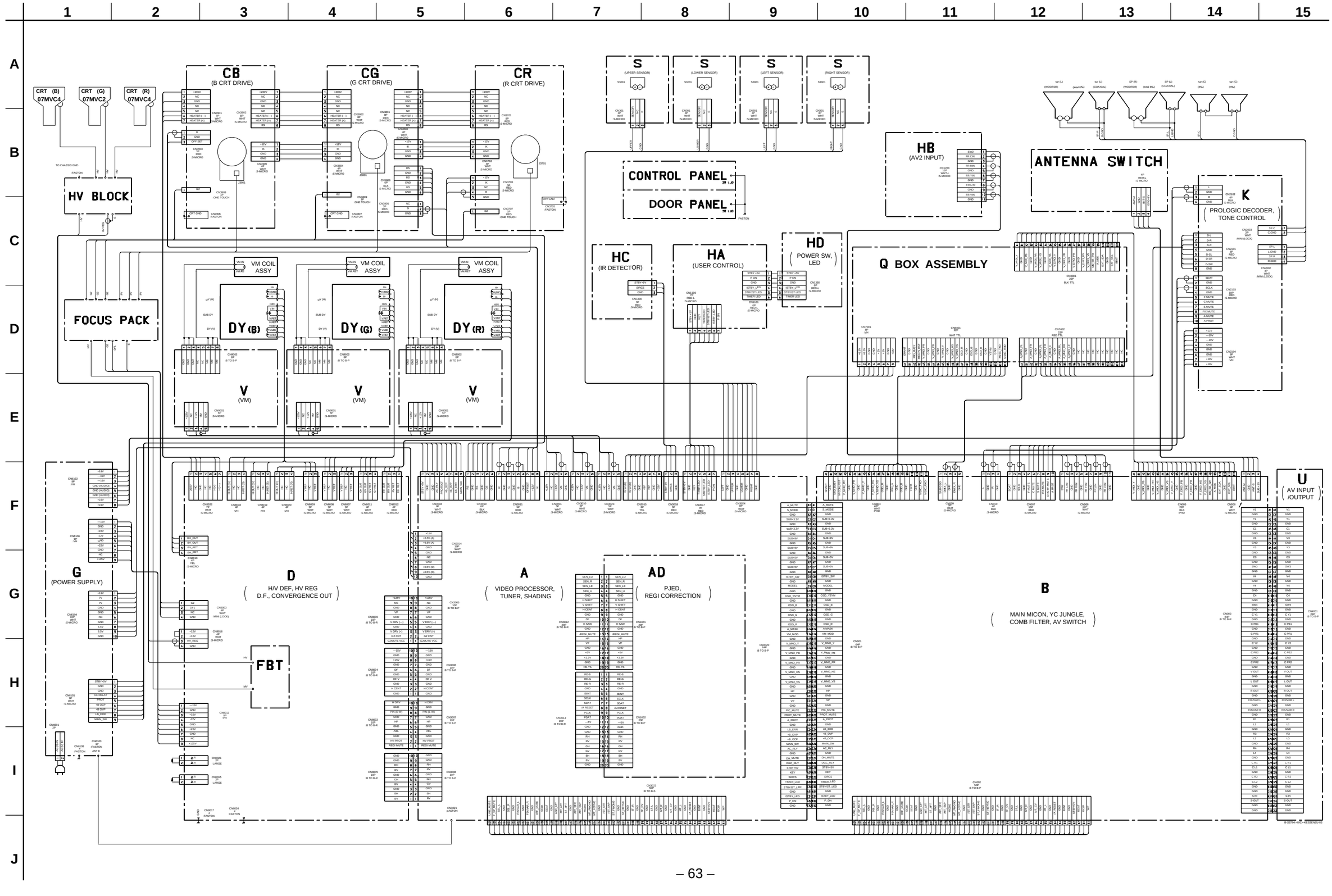


BLOCK DIAGRAM (9)

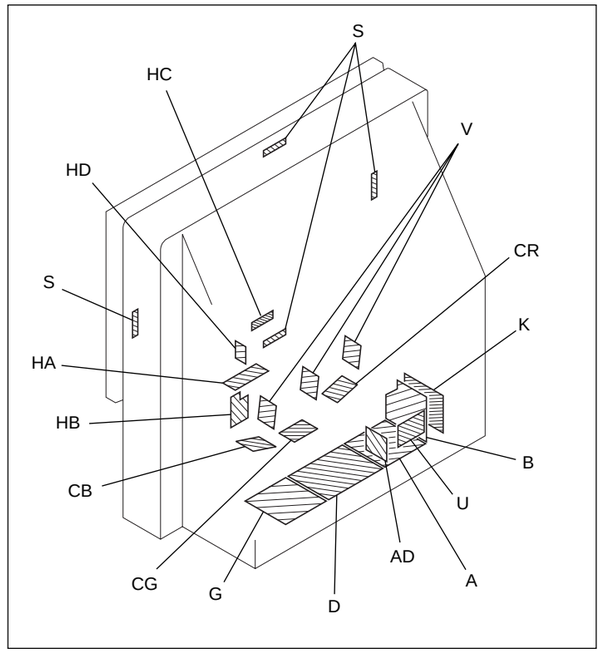


BLOCK DIAGRAM (10)




CB
(B CRT DRIVE)
CG
(G CRT DRIVE)
CR
(R CRT DRIVE)
CRT (B) 07MVC4
CRT (G) 07MVC2
CRT (R) 07MVC4
HV BLOCK
FOCUS PACK
VM COIL ASSY
DY (B)
DY (G)
DY (R)
V (VM)
G (POWER SUPPLY)
FBT
D
H/V DEF, HV REG
D.F., CONVERGENCE OUT
A
VIDEO PROCESSOR, TUNER, SHADING
AD
PJED, REGI CORRECTION
B
MAIN MICON, YC JUNGLE, COMB FILTER, AV SWITCH
S (LPEER SENSOR)
S (LOWER SENSOR)
S (LEFT SENSOR)
S (RIGHT SENSOR)
CONTROL PANEL
DOOR PANEL
HB
(AV2 INPUT)
HC
(IR DETECTOR)
HA
(USER CONTROL)
HD
(POWER SW, LED)
Q BOX ASSEMBLY
ANTENNA SWITCH
K
PROLOGIC DECODER, TONE CONTROL
U
AV INPUT /OUTPUT

7-3. CIRCUIT BOARDS LOCATION



7-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- The parts marked "#" on schematic diagrams are not mounted.
- All capacitors are in µF unless otherwise noted. (pF: µµF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ∗ : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.
- : Signal path.
- The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. (See page 51)
- When replacing the part in below table, be sure to perform the related adjustment.

Part Replaced (◪)	Adjustment (⋈)
C8079, C8083, C8090, C8129, D8013, D8015, D8038, D8043, IC8006, Q8021, R8055, R8099, R8102, R8128, R8129, R8131, R8139, R8140, R8142, R8153, R8163, R8223, R8230, T8004 (LOT), T8005 (FBT), HV Block, D Board	VR8001 (HV Regulator)
C8054, C8086, C8088, C8100, C8104, C8118, C8123, C8124, D8019, D8020, D8022, D8028, D8036, FB8001, IC8008, Q8035, Q8038, R8035, R8043, R8159, R8166, R8171, R8196, R8201, T8004 (LOT), T8005 (FBT), HV Block, D Board	VR8002 (HV Hold-Down)

- Divided schematic diagram
  Schematic diagrams of A, AD, B, D, G and K boards are divided into several pieces. Information to where the line is to be connected is printed at the end of each line.
  For example, [**TO A1/3,A2/3_1**] means the line is connected to Ref. No. 1 of A (1/3) and A (2/3) schematic diagrams.

TO A1/3,A2/3_1
Ref. No.
Name of divided schematic diagram

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

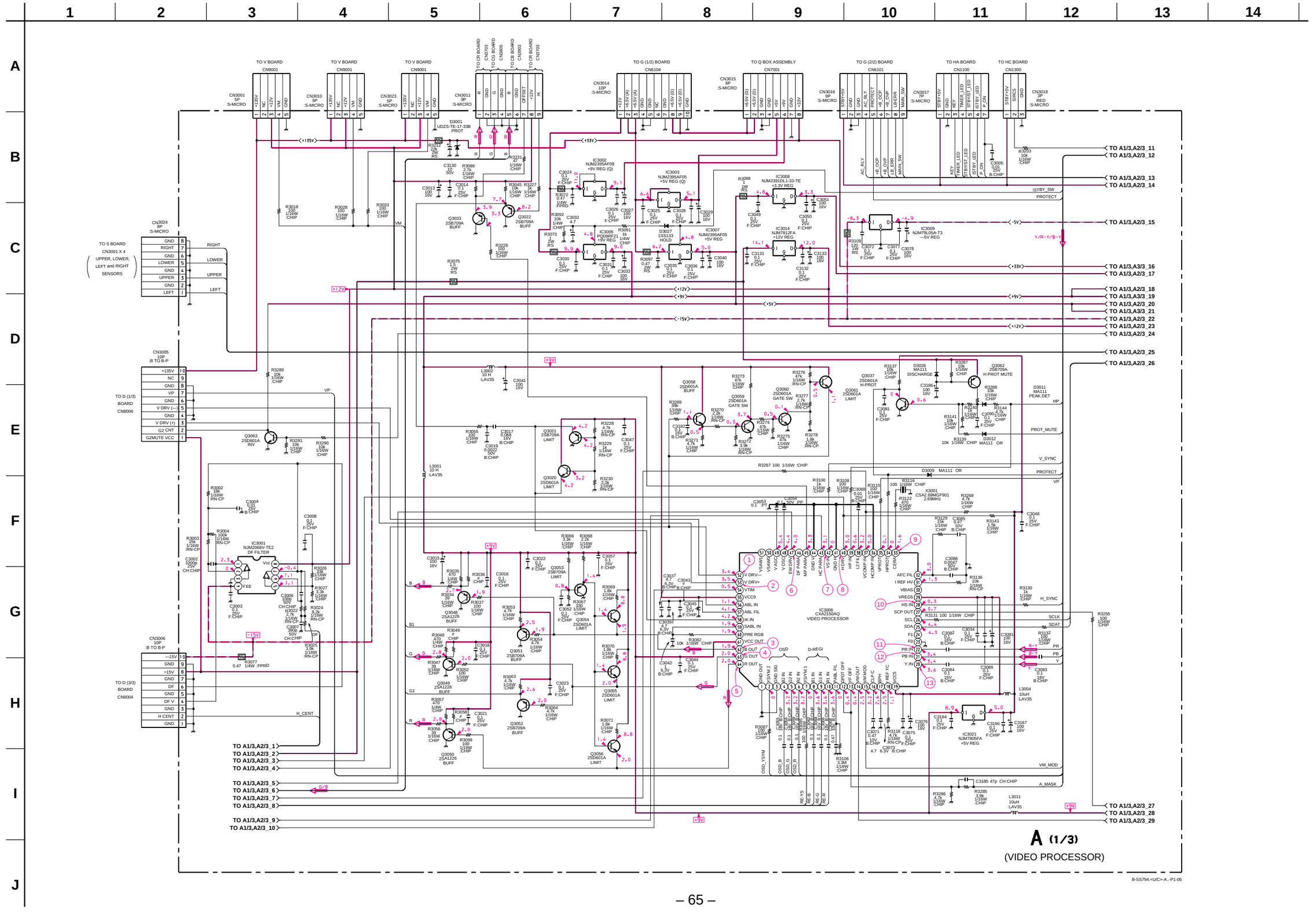
Terminal name of semiconductors in silk screen printed circuit (∗)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base Emitter	
②	Transistor	—	Collector / Base Emitter	
③	Diode	⊐	Cathode Anode	
④	Diode	T	Cathode / Anode (NC)	
⑤	Diode	—	Cathode / Anode (NC)	
⑥	Diode	T	Common / Anode Cathode	
⑦	Diode	—	Common / Anode Cathode	
⑧	Diode	T	Common / Anode Anode	
⑨	Diode	—	Common / Anode Anode	
⑩	Diode	T	Common / Cathode Cathode	
⑪	Diode	—	Common / Cathode Cathode	
⑫	Diode	|	Anode Anode Cathode / Cathode Anode Anode	
⑬	Transistor (FET)	|	Drain / Source Gate	
⑭	Transistor (FET)	⊢	Drain / Source Gate	
⑮	Transistor (FET)	|	□ Source □ Drain □ Gate	
⑯	Transistor	|	□ Emitter □ Collector □ Base	
⑰	Transistor	⊢⊣	C2 B1 E1 / E2 B2 C1	
⑱	Transistor	⊢⊣	C1 B2 E2 / E1 B1 C2	
⑲	Transistor	—	C1 B2 E2 / E1 B1 C2	
⑳	Transistor	—	C1 B2 E2 / E1 B1 C2	
㉑	Transistor	—	E2 B1 E1 / C2 C1(B2)	
㉒	Transistor	—	(B2) B1 E1 E2 / C1 C2	
㉓	Transistor	—	(B2) E2 E1 B1 / C2 C1	
–	Discrete semiconductot			

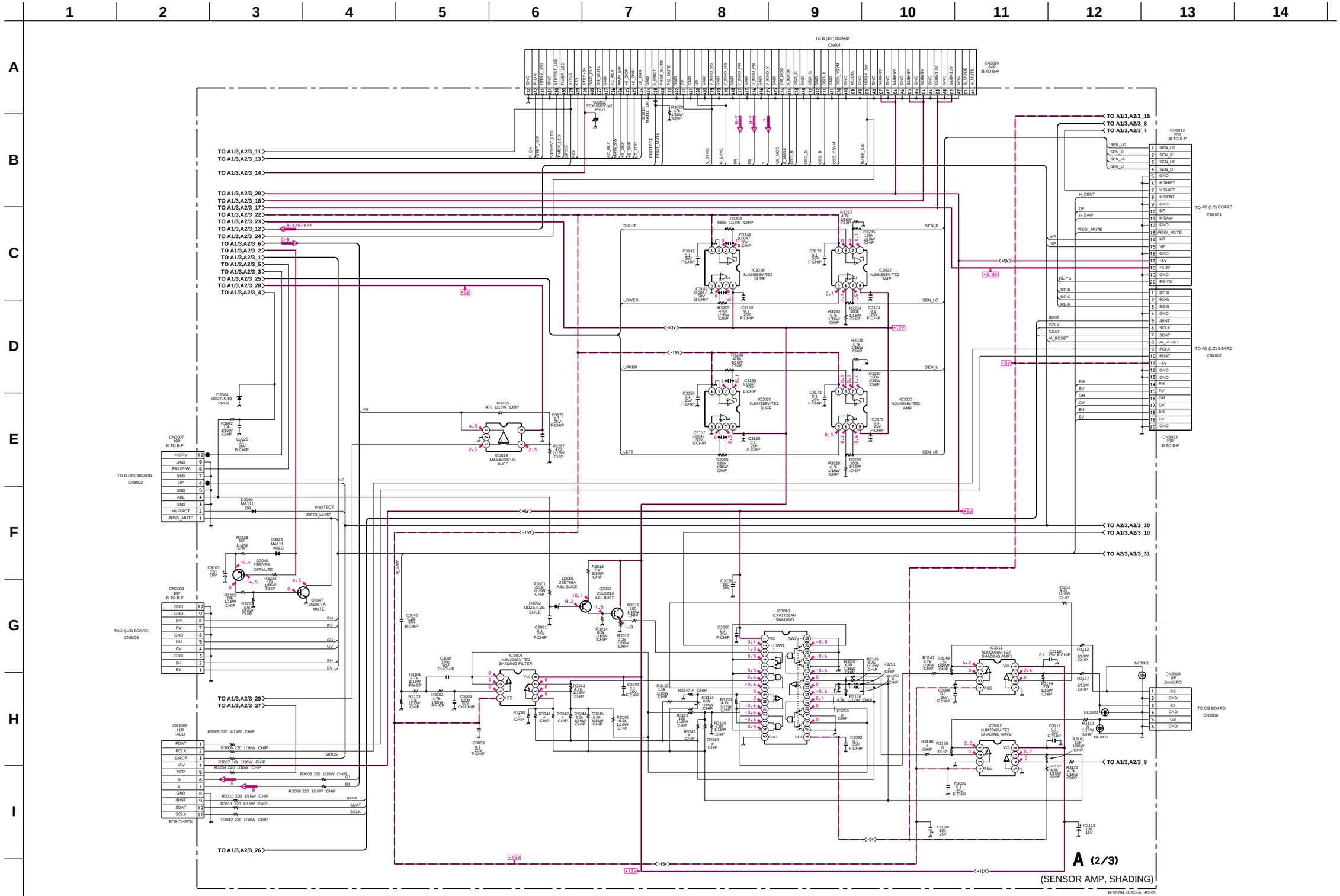
(Chip semiconductors that are not actually used are included.)

Ver.1.5

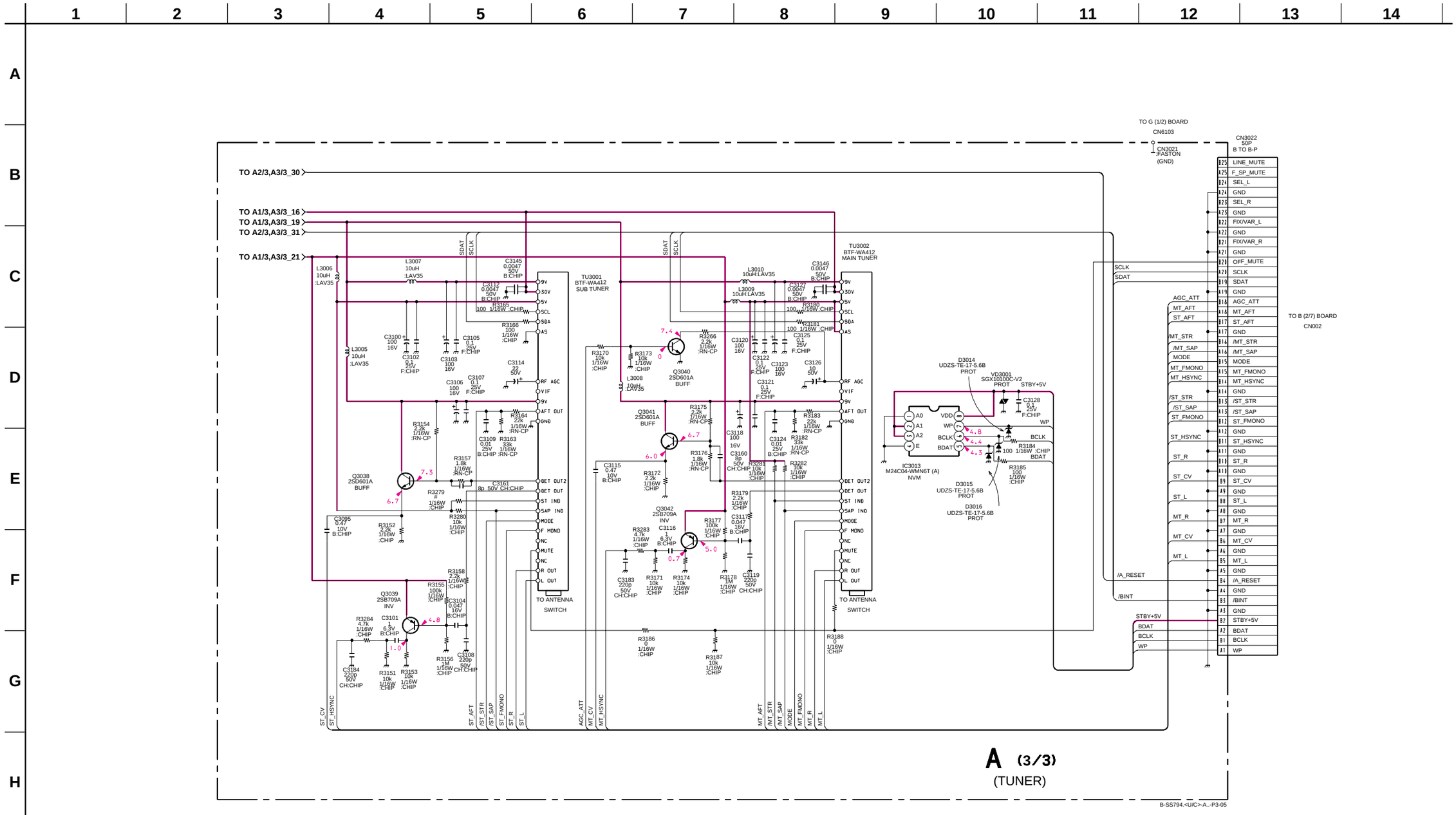
(1) Schematic Diagram of A (1/3) Board



(2) Schematic Diagram of A (2/3) Board

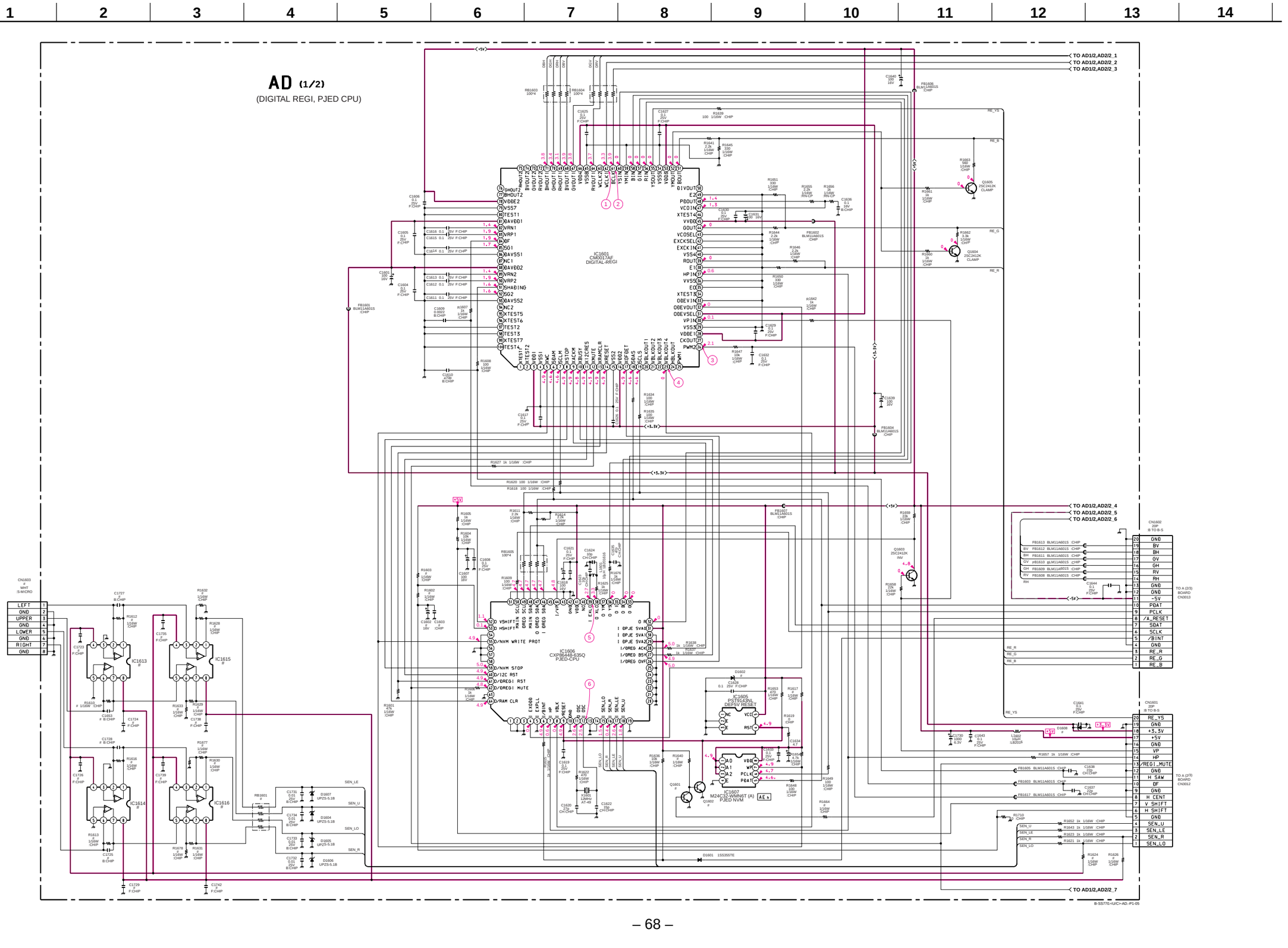


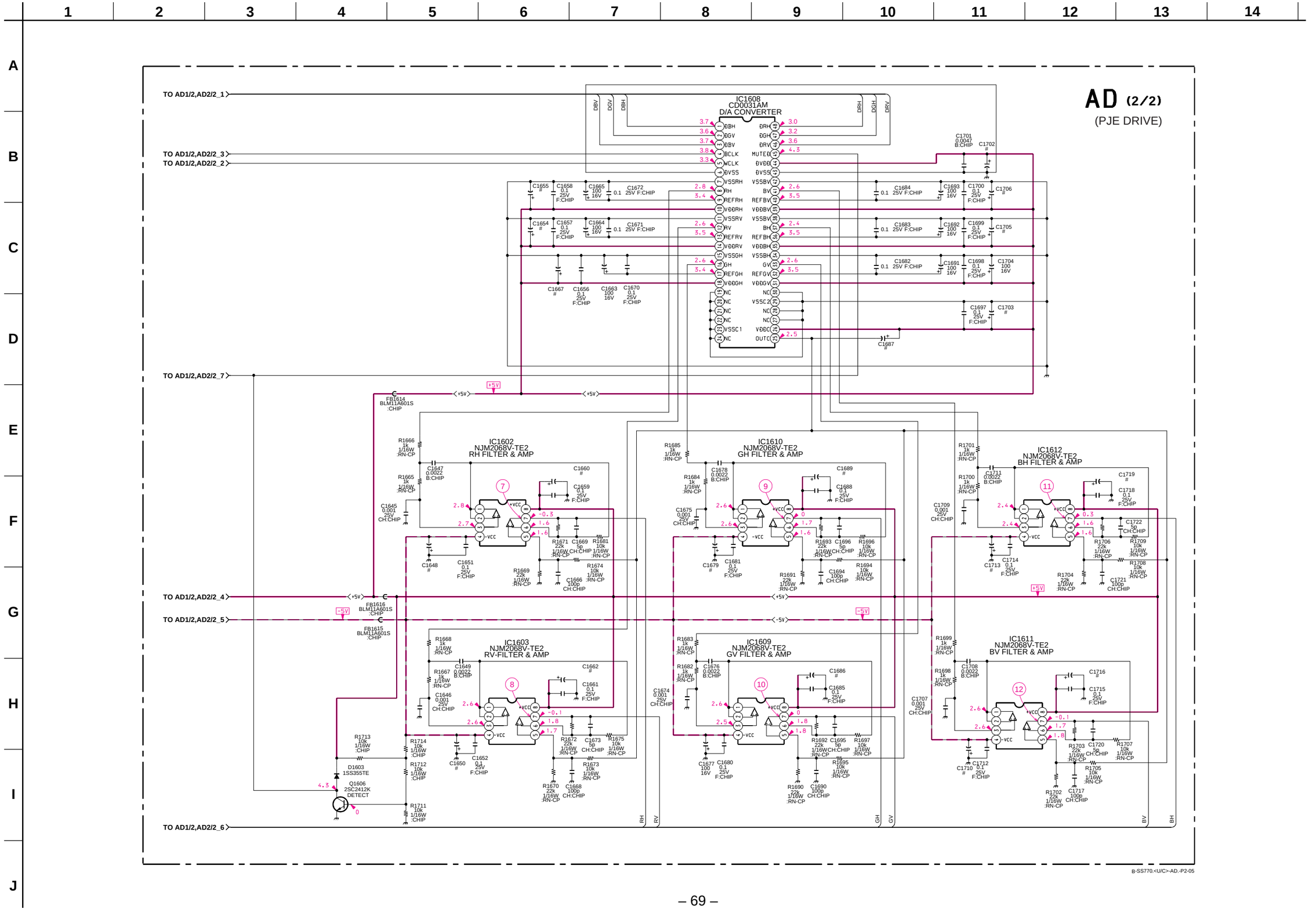
(3) Schematic Diagram of A (3/3) Board



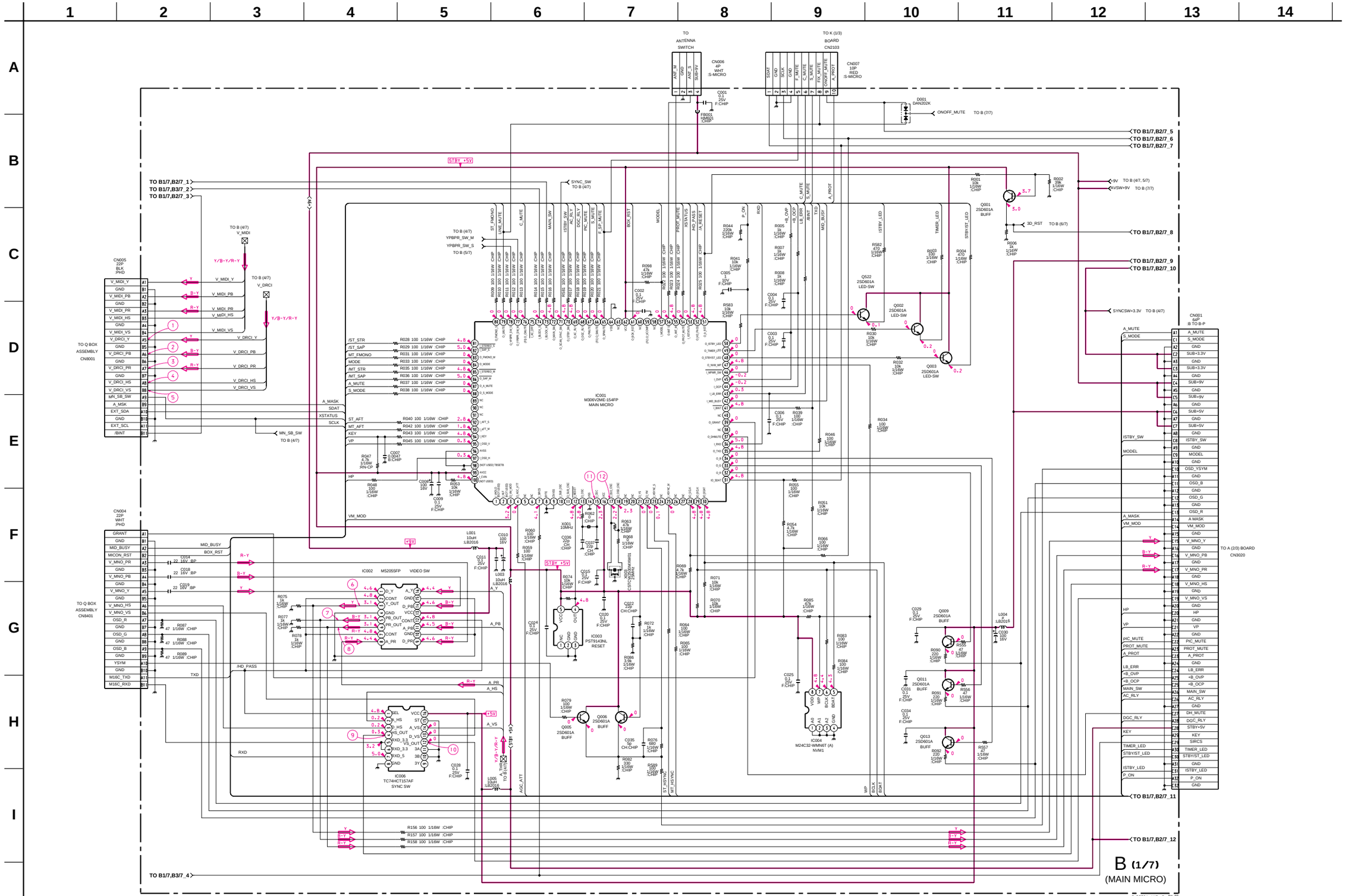
AD (1/2)

(DIGITAL REGI, PJED CPU)

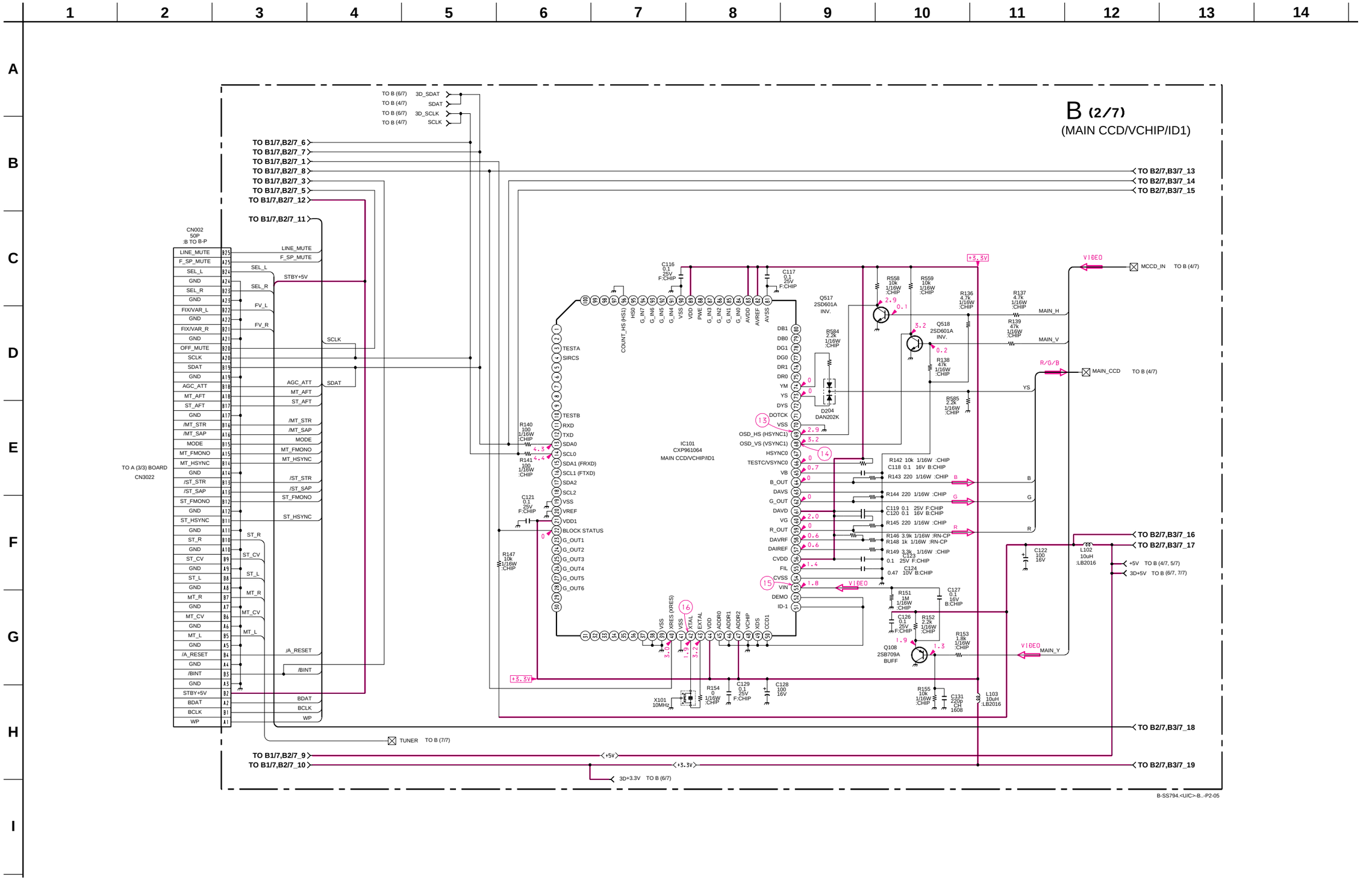



AD (2/2)
(PJE DRIVE)
TO AD1/2,AD2/2_1
TO AD1/2,AD2/2_3
TO AD1/2,AD2/2_2
TO AD1/2,AD2/2_7
TO AD1/2,AD2/2_4
TO AD1/2,AD2/2_5
TO AD1/2,AD2/2_6
IC1608
CD0031AM
D/A CONVERTER
IC1602
NJM2068V-TE2
RH FILTER & AMP
IC1610
NJM2068V-TE2
GH FILTER & AMP
IC1612
NJM2068V-TE2
BH FILTER & AMP
IC1603
NJM2068V-TE2
RV-FILTER & AMP
IC1609
NJM2068V-TE2
GV FILTER & AMP
IC1611
NJM2068V-TE2
BV FILTER & AMP
+5V
-5V
B-SS770.<U/C>-AD.-P2-05

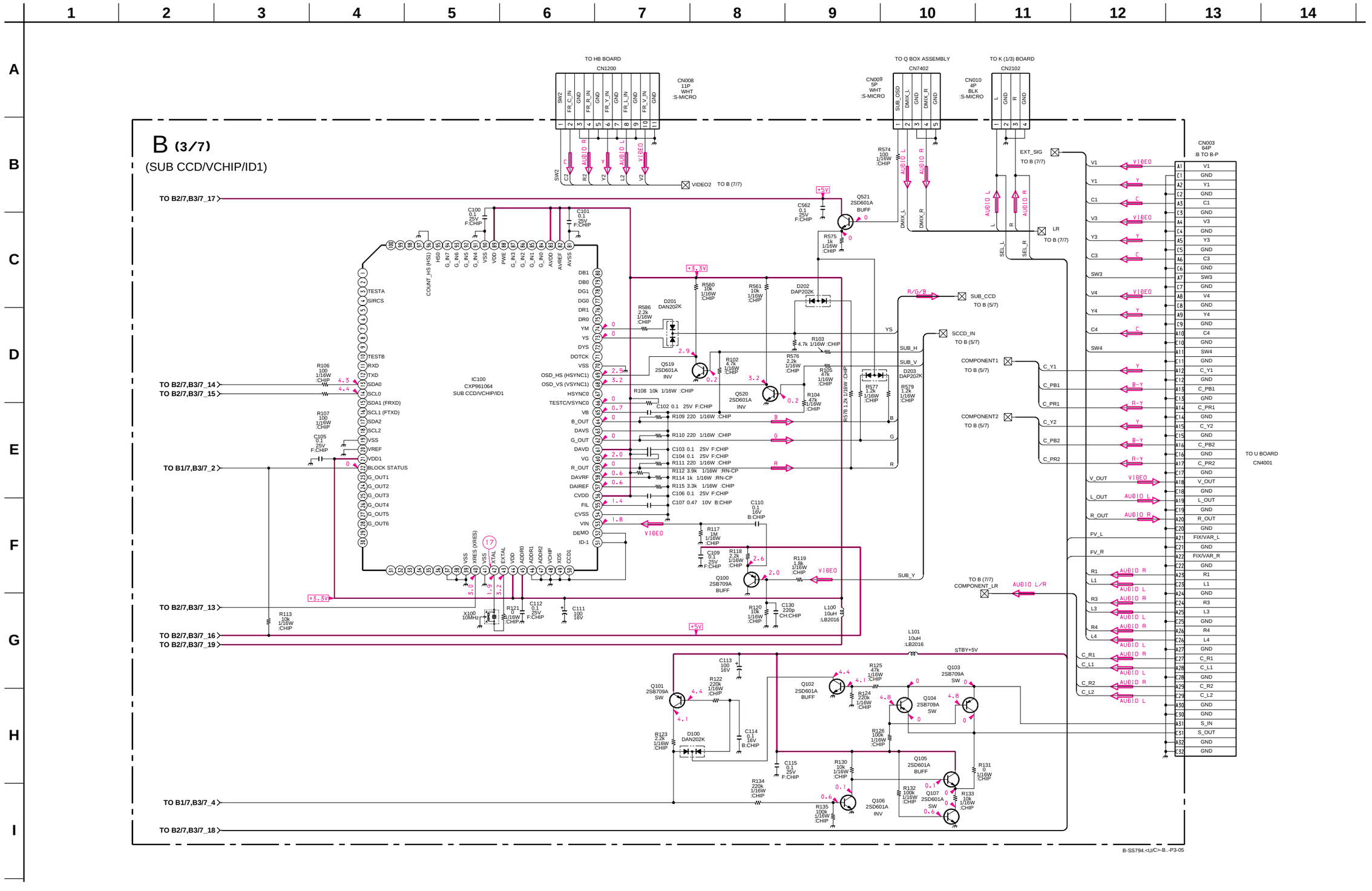
(6) Schematic Diagram of B (1/7) Board



(7) Schematic Diagram of B (2/7) Board



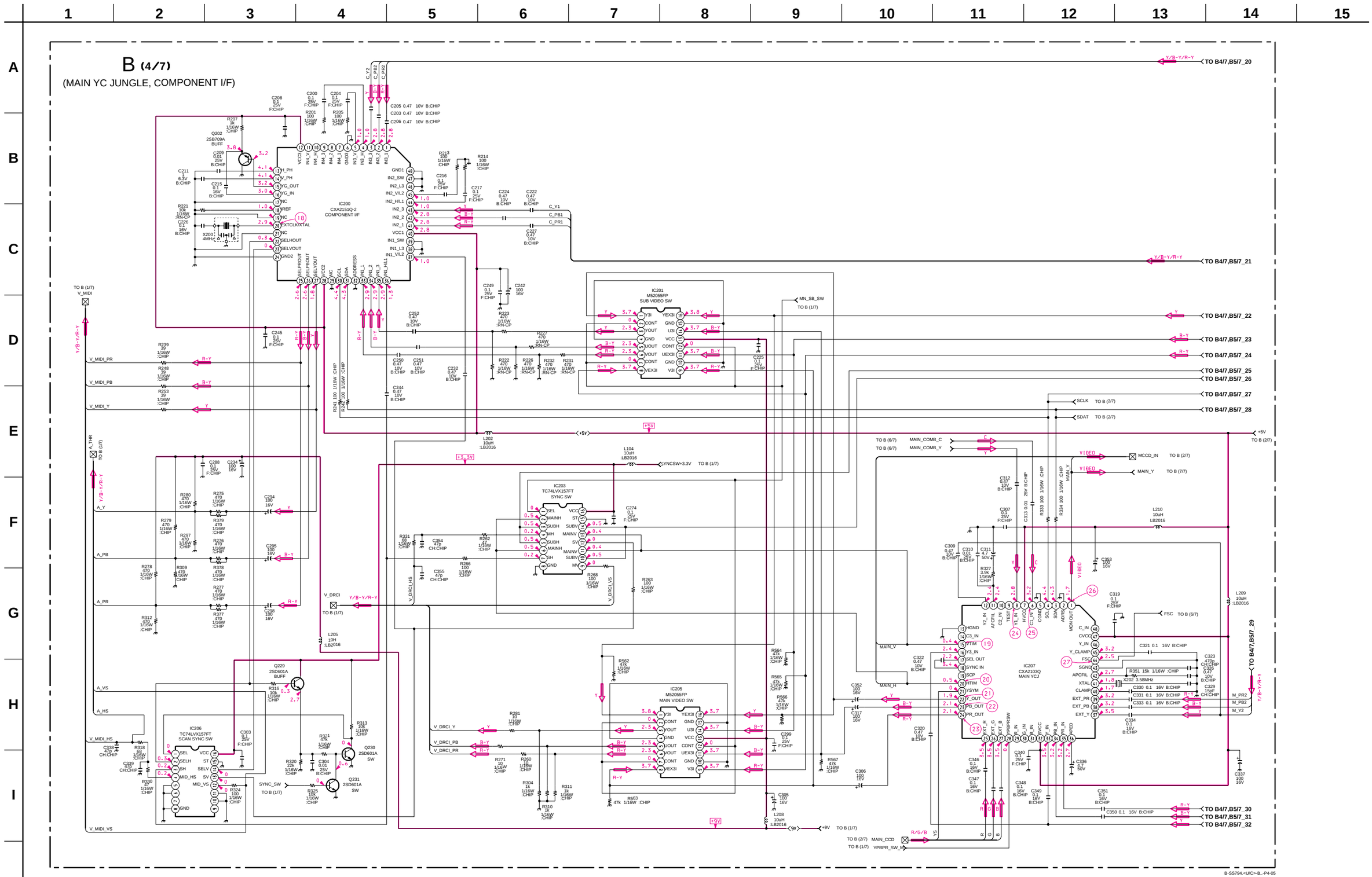
(8) Schematic Diagram of B (3/7) Board



(9) Schematic Diagram of B (4/7) Board

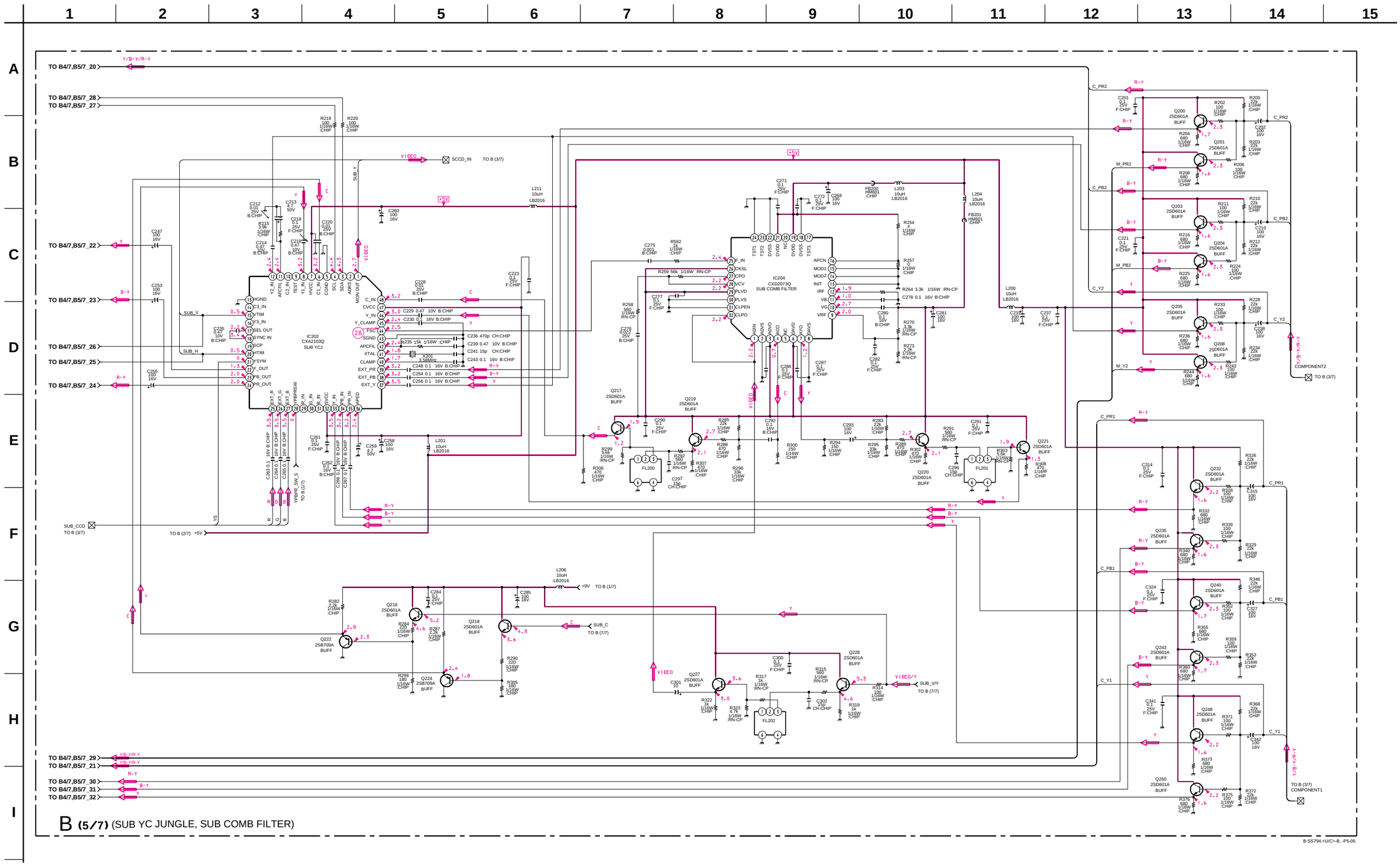
B (4/7)

(MAIN YC JUNGLE, COMPONENT I/F)



B-SS794.<U/C>-B...-P4-05

(10) Schematic Diagram of B (5/7) Board



(11) Schematic Diagram of B (6/7) Board

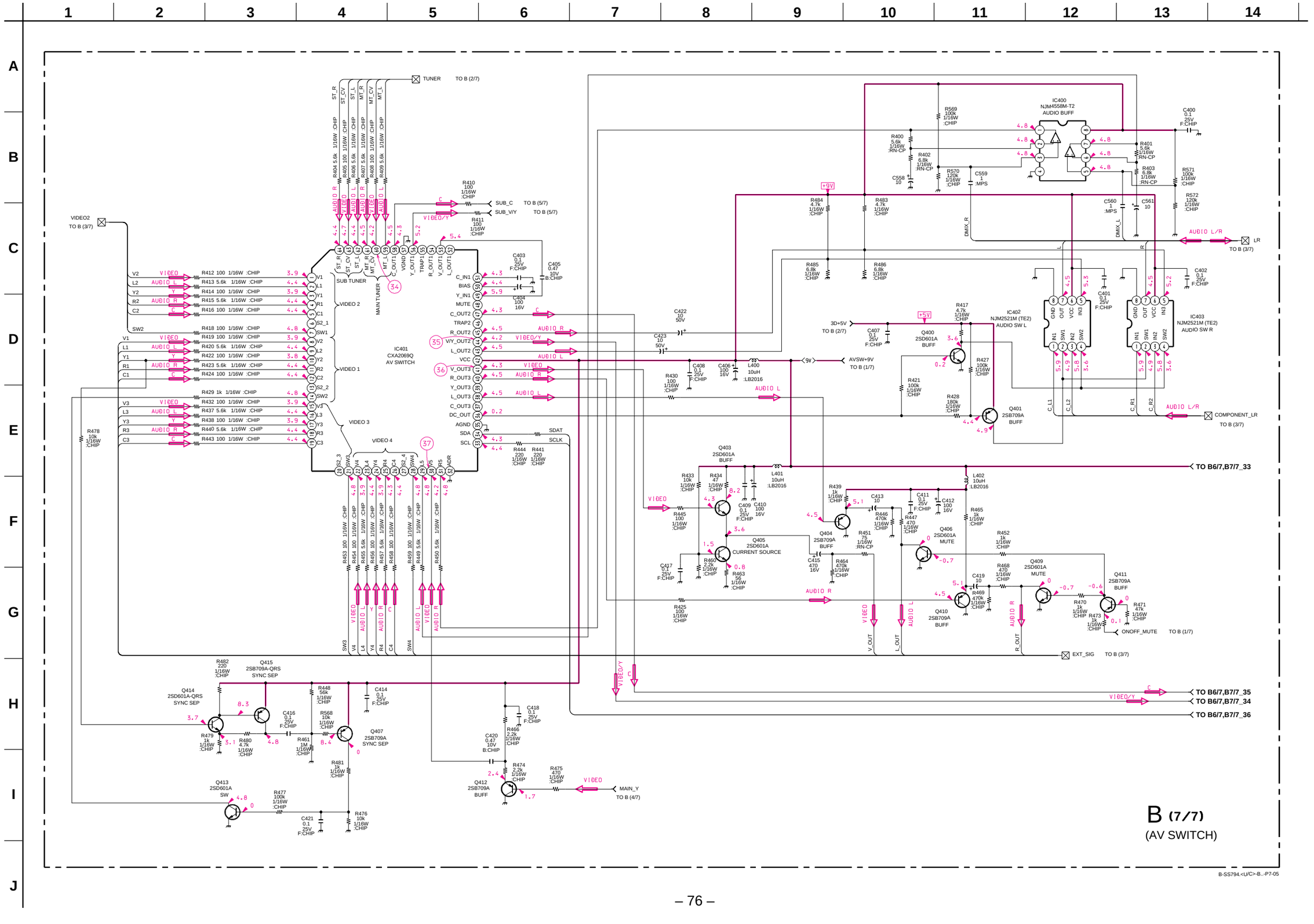
B (6/7)
(3D COMB FILTER)

IC500
uPD424210LE-60
FRAME MEMORY

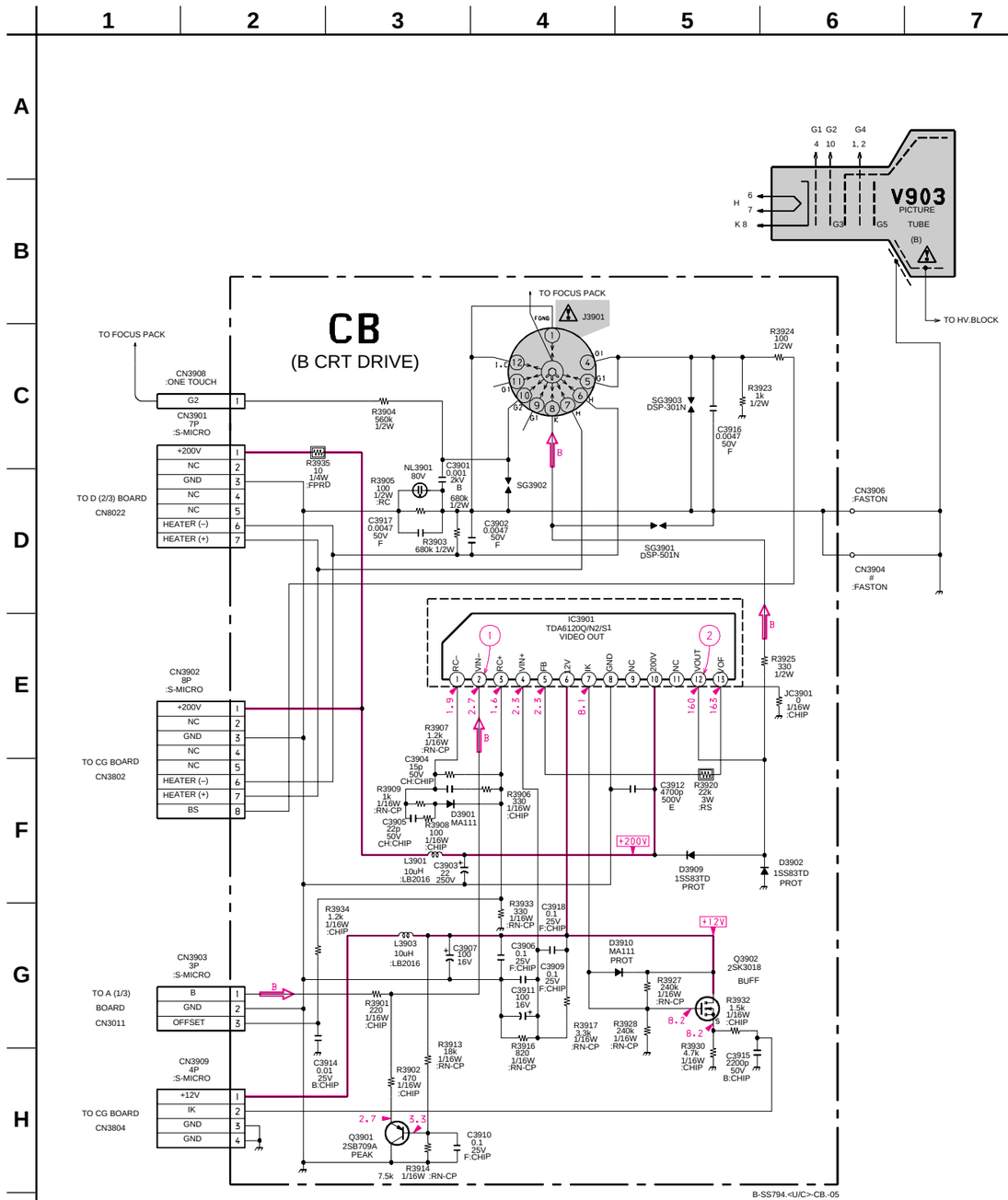
IC501
uPD64082
3D COMB FILTER

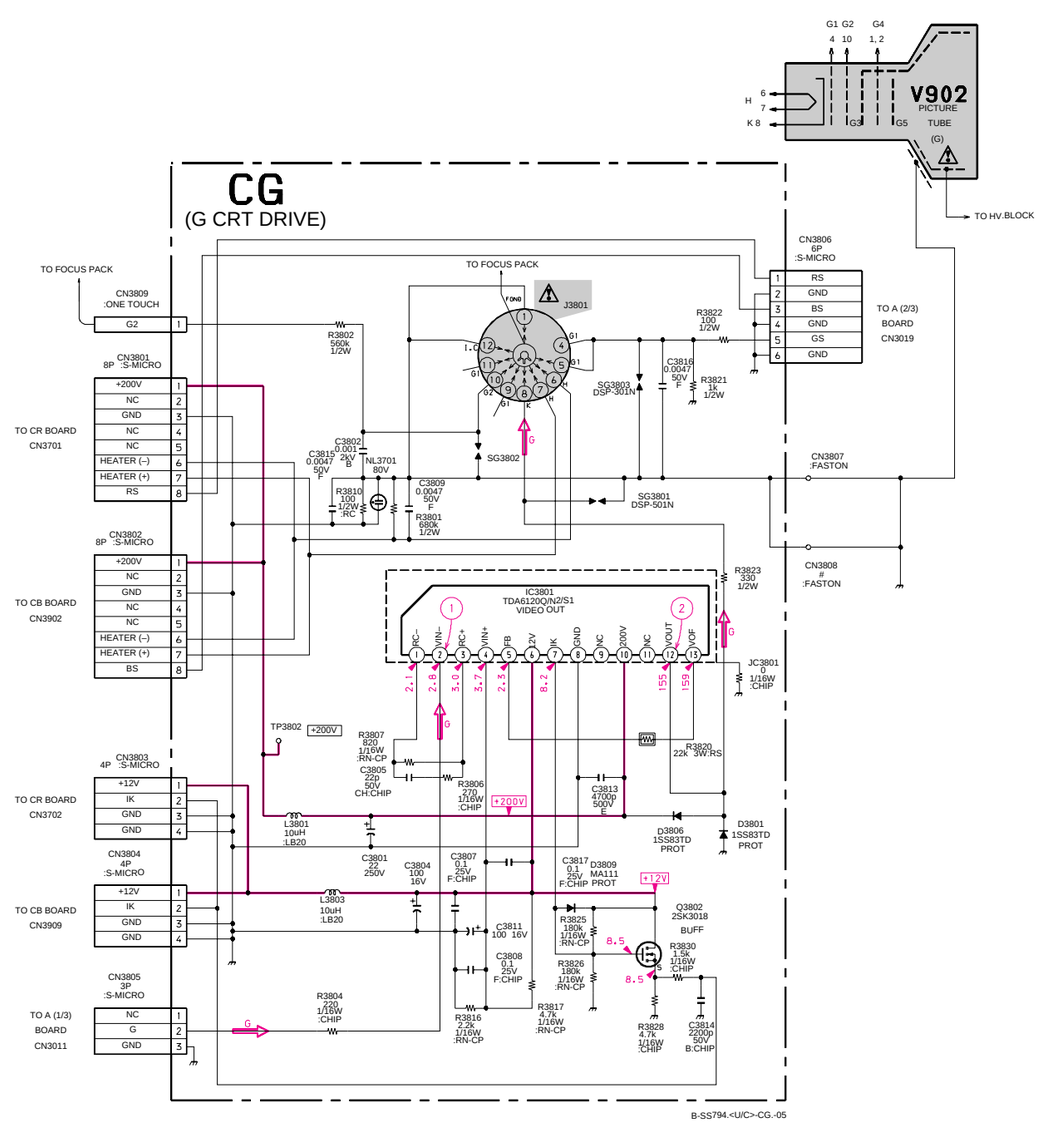
TO B6/7,B7/7_33
TO B6/7,B7/7_34
TO B6/7,B7/7_35
TO B6/7,B7/7_36
VIDEO/Y
MAIN_COMB_Y
MAIN_COMB_C
TO B (4/7)
TO B (2/7)
TO B (1/7)
3D+5V
3D+3.3V
3D_RST
3D_SDAT
3D_SCLK
FSC

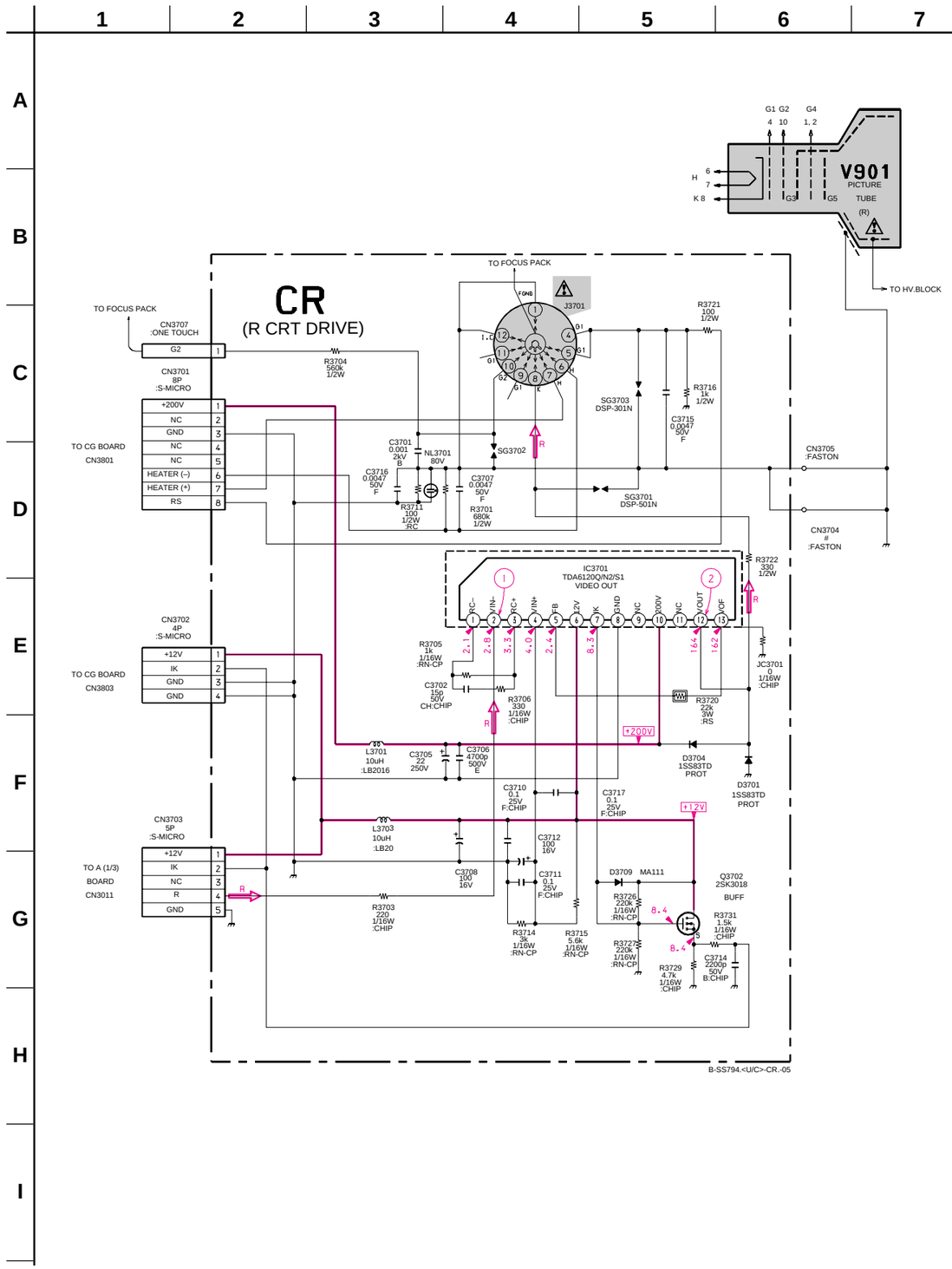
B-SS794.<U/C>-B..-P6-05

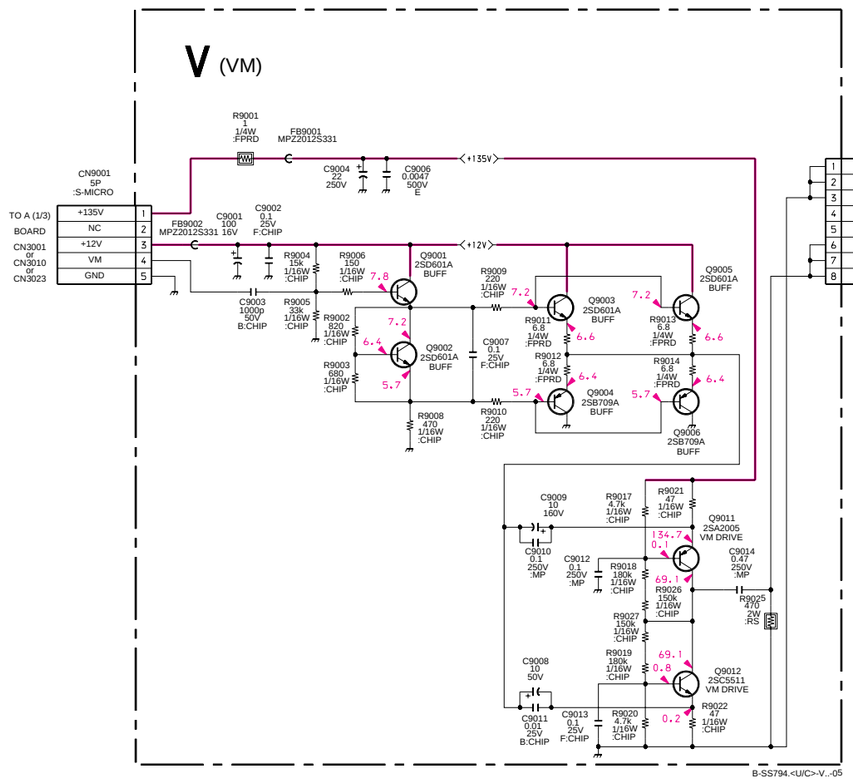

1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J
TUNER
TO B (2/7)
VIDEO2
TO B (3/7)
SUB TUNER
MAIN TUNER
IC401
CXA2069Q
AV SWITCH
VIDEO 1
VIDEO 2
VIDEO 3
VIDEO 4
SUB_C
SUB_V/Y
VIDEO/Y
IC400
NJM4558M-T2
AUDIO BUFF
IC402
NJM2521M (TE2)
AUDIO SW L
IC403
NJM2521M (TE2)
AUDIO SW R
AUDIO L/R
LR
COMPONENT_LR
Q400
2SD601A
BUFF
Q401
2SB709A
BUFF
Q403
2SD601A
BUFF
Q404
2SB709A
BUFF
Q405
2SD601A
CURRENT SOURCE
Q406
2SD601A
MUTE
Q407
2SB709A
SYNC SEP
Q409
2SD601A
MUTE
Q410
2SB709A
BUFF
Q411
2SB709A
BUFF
Q412
2SB709A
BUFF
Q413
2SD601A
SW
Q414
2SD601A-QRS
SYNC SEP
Q415
2SB709A-QRS
SYNC SEP
+9V
9V
AVSW+9V
TO B (1/7)
3D+5V
TO B (2/7)
+5V
SDAT
SCLK
MAIN_Y
TO B (4/7)
ONOFF_MUTE
TO B (1/7)
EXT_SIG
TO B (3/7)
TO B6/7,B7/7_33
TO B6/7,B7/7_35
TO B6/7,B7/7_34
TO B6/7,B7/7_36
B (7/7)
(AV SWITCH)
B-SS794.<U/C>-B..-P7-05

(13) Schematic Diagrams of CB and CG Boards






V901
PICTURE TUBE
(R)
TO HV.BLOCK
TO FOCUS PACK
CR
(R CRT DRIVE)
CN3707
:ONE TOUCH
G2
CN3701
8P
:S-MICRO
+200V
NC
GND
NC
NC
HEATER (–)
HEATER (+)
RS
TO CG BOARD
CN3801
CN3702
4P
:S-MICRO
+12V
IK
GND
GND
TO CG BOARD
CN3803
CN3703
5P
:S-MICRO
+12V
IK
NC
R
GND
TO A (1/3)
BOARD
CN3011
J3701
SG3702
SG3703
DSP-301N
SG3701
DSP-501N
CN3705
:FASTON
CN3704
:FASTON
IC3701
TDA6120Q/N2/S1
VIDEO OUT
JC3701
0
1/16W
:CHIP
R3720
22k
3W
:RS
D3704
1SS83TD
PROT
D3701
1SS83TD
PROT
+200V
+12V
D3709 MA111
Q3702
2SK3018
BUFF
L3701
10uH
:LB2016
L3703
10uH
:LB20
B-SS794.<U/C>-CR.-05


V (VM)
CN9001
5P
:S-MICRO
+135V
NC
+12V
VM
GND
TO A (1/3)
BOARD
CN3001
or
CN3010
or
CN3023
CN9002
8P
:B TO B-P
GND
GND
GND
NC
NC
VM
VM
VM
VM COIL ASSY
VM.IN
VM.RET
+135V
+12V
Q9001
2SD601A
BUFF
Q9002
2SD601A
BUFF
Q9003
2SD601A
BUFF
Q9004
2SB709A
BUFF
Q9005
2SD601A
BUFF
Q9006
2SB709A
BUFF
Q9011
2SA2005
VM DRIVE
Q9012
2SC5511
VM DRIVE
B-SS794.<U/C>-V..-05

(15) Schematic Diagram of D (1/3) Board

D (1/3)
(HV DRIVE)

IC8003
LA78045
V.OUT

IC8002
STK392-560
CONV.OUT 1

IC8001
STK392-560
CONV.OUT 2

CN8006 10P :B TO B-S
G2_MUTE VCC 1
G2 CNT 2
V_DRV (+) 3
GND 4
V_DRV (-) 5
GND 6
VP 7
GND 8
NC 9
+135V 10

TO A (1/3) BOARD CN3005

CN8005 10P :B TO B-S
BV 1
BH 2
GND 3
GV 4
GH 5
GND 6
RV 7
RH 8
GND 9
GND 10

TO A (2/3) BOARD CN3008

CN8024 # :FASTON
CN8007 3P WHT :S-MICRO TO DY (R)
CN8008 3P WHT :S-MICRO TO DY (G)
CN8009 3P WHT :S-MICRO TO DY (B)
CN8010 4P YEL :S-MICRO TO DY (B)
CN8011 4P WHT :S-MICRO TO DY (G)
CN8012 4P RED :S-MICRO TO DY (R)

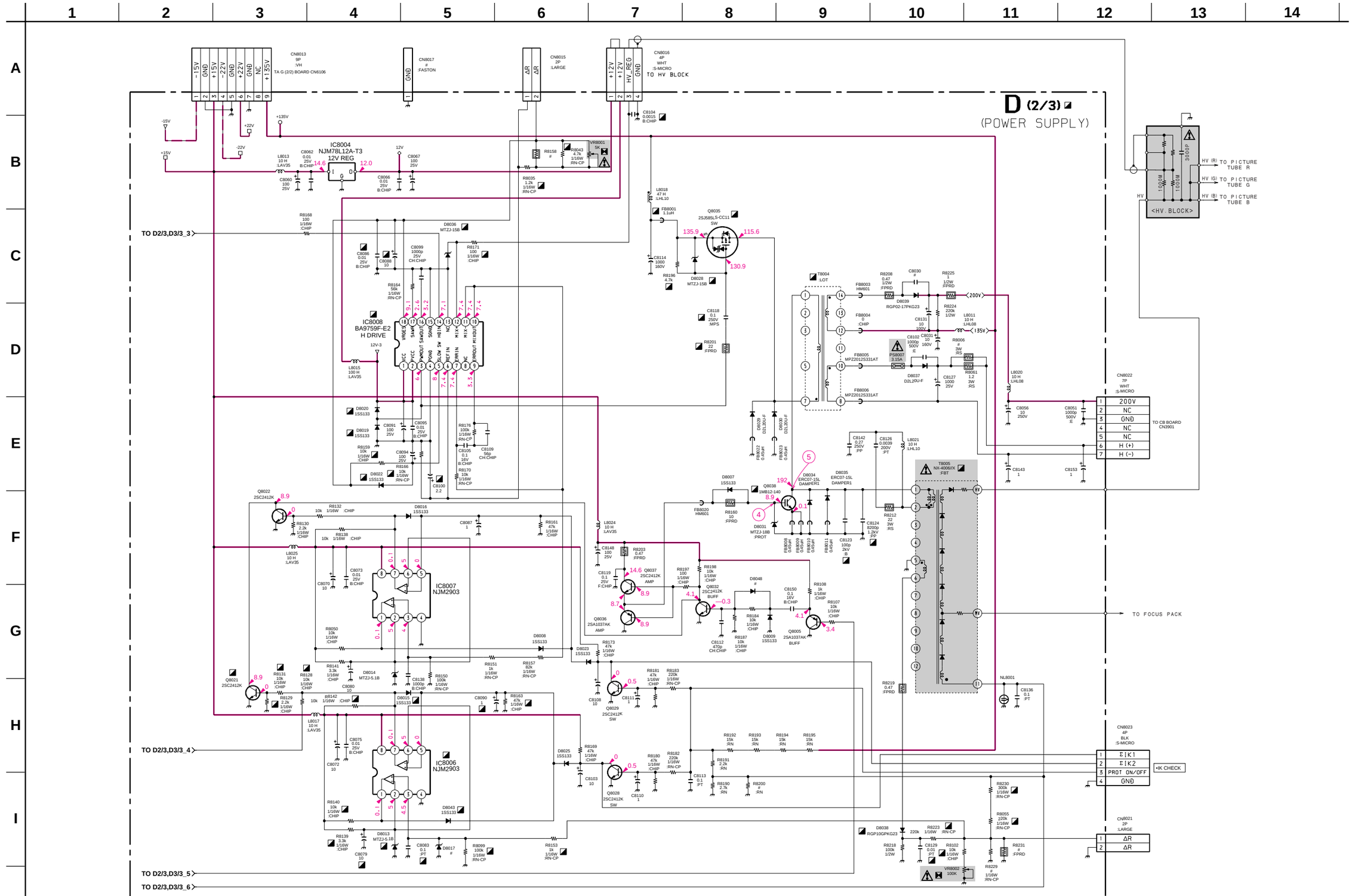
TO D (3/3) BOARD CN8020
TO D (3/3) BOARD CN8018
TO D (3/3) BOARD CN8019

DY (R)
DY (G)
DY (B)
DY (H)
DY (V)
SUB DY

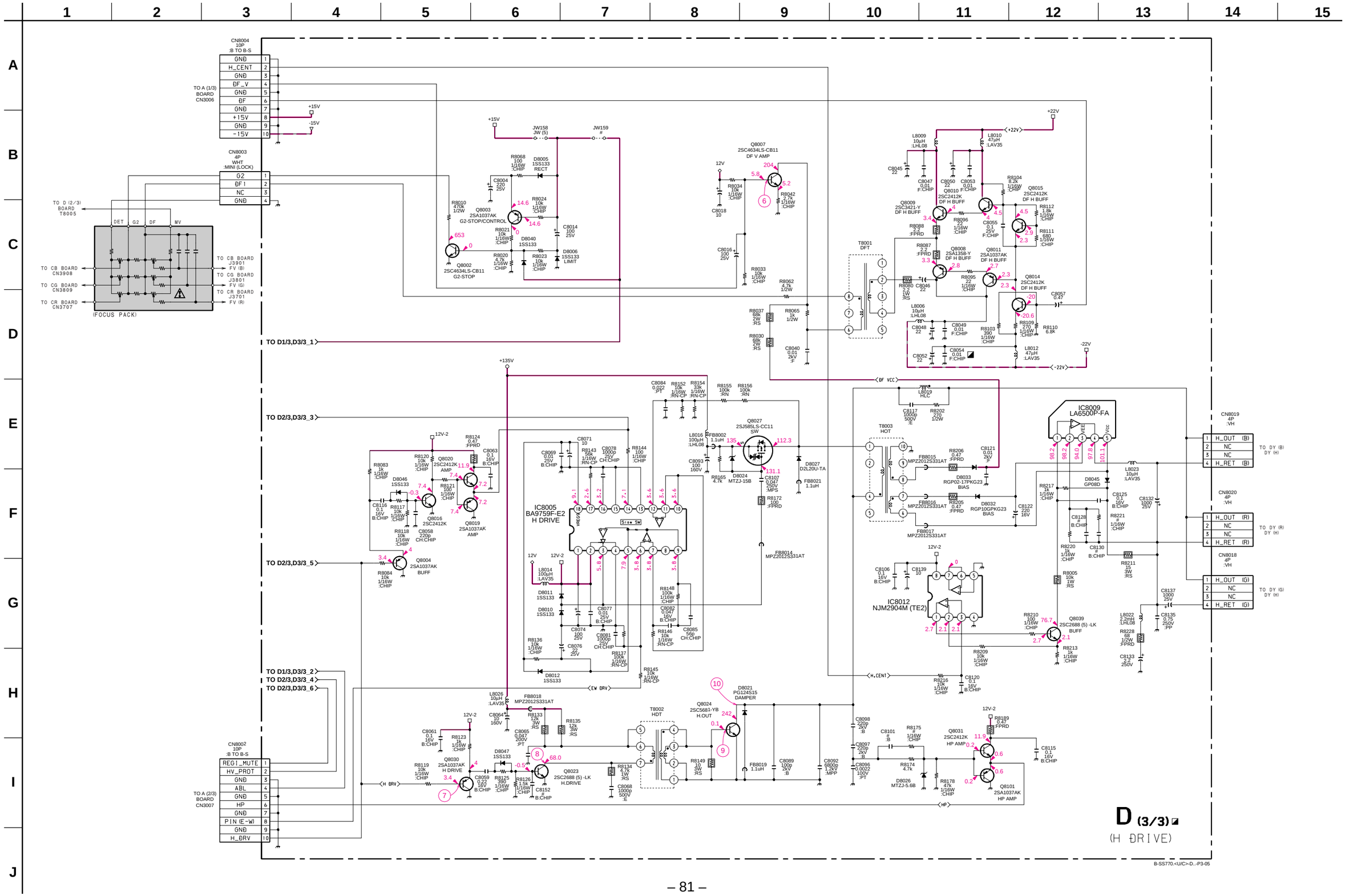
TO D1/D3,D2/3_1
TO D1/D3,D2/3_2

B-SS770.<U/C>-D..-P1-05

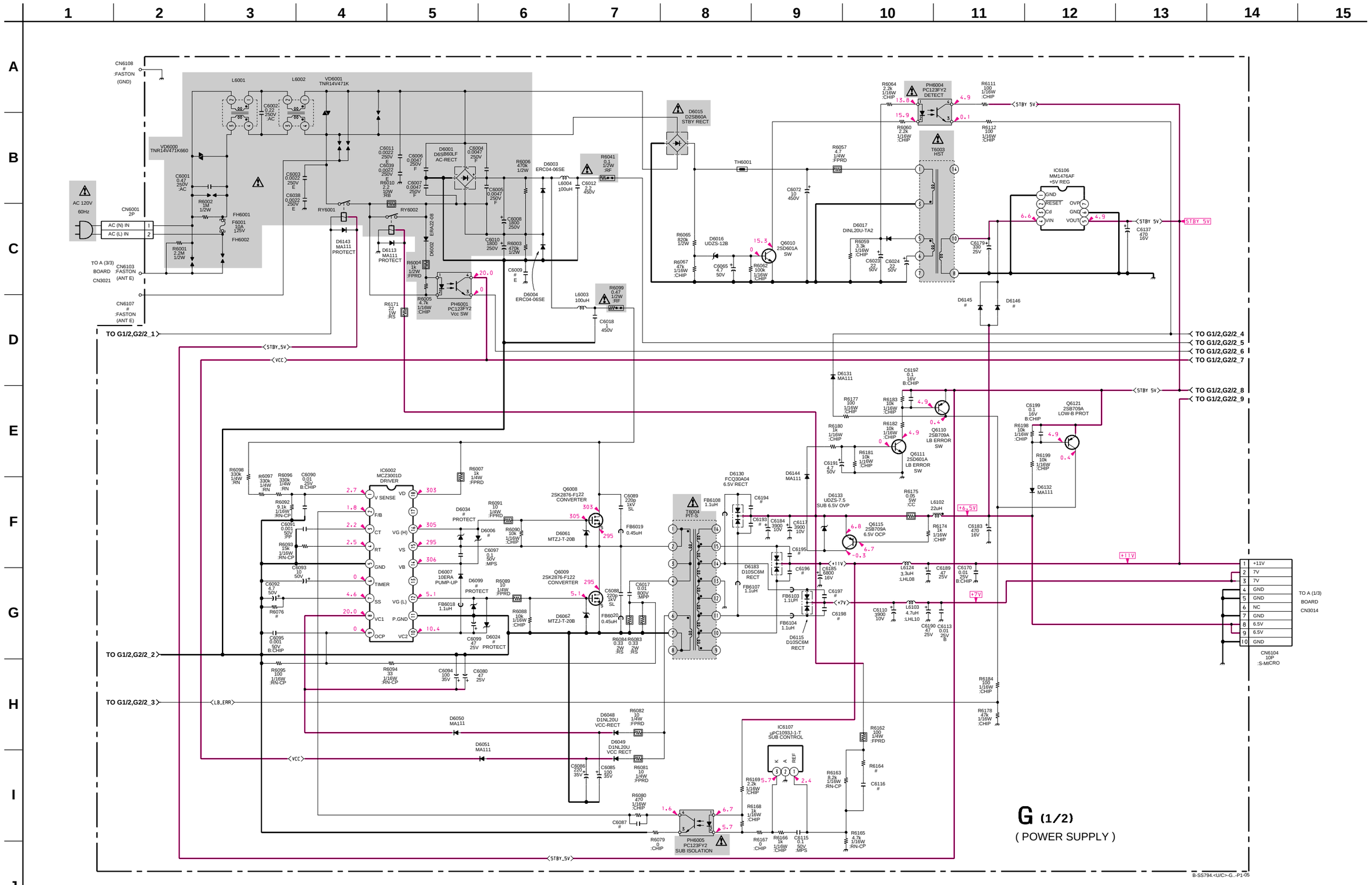
(16) Schematic Diagram of D (2/3) Board



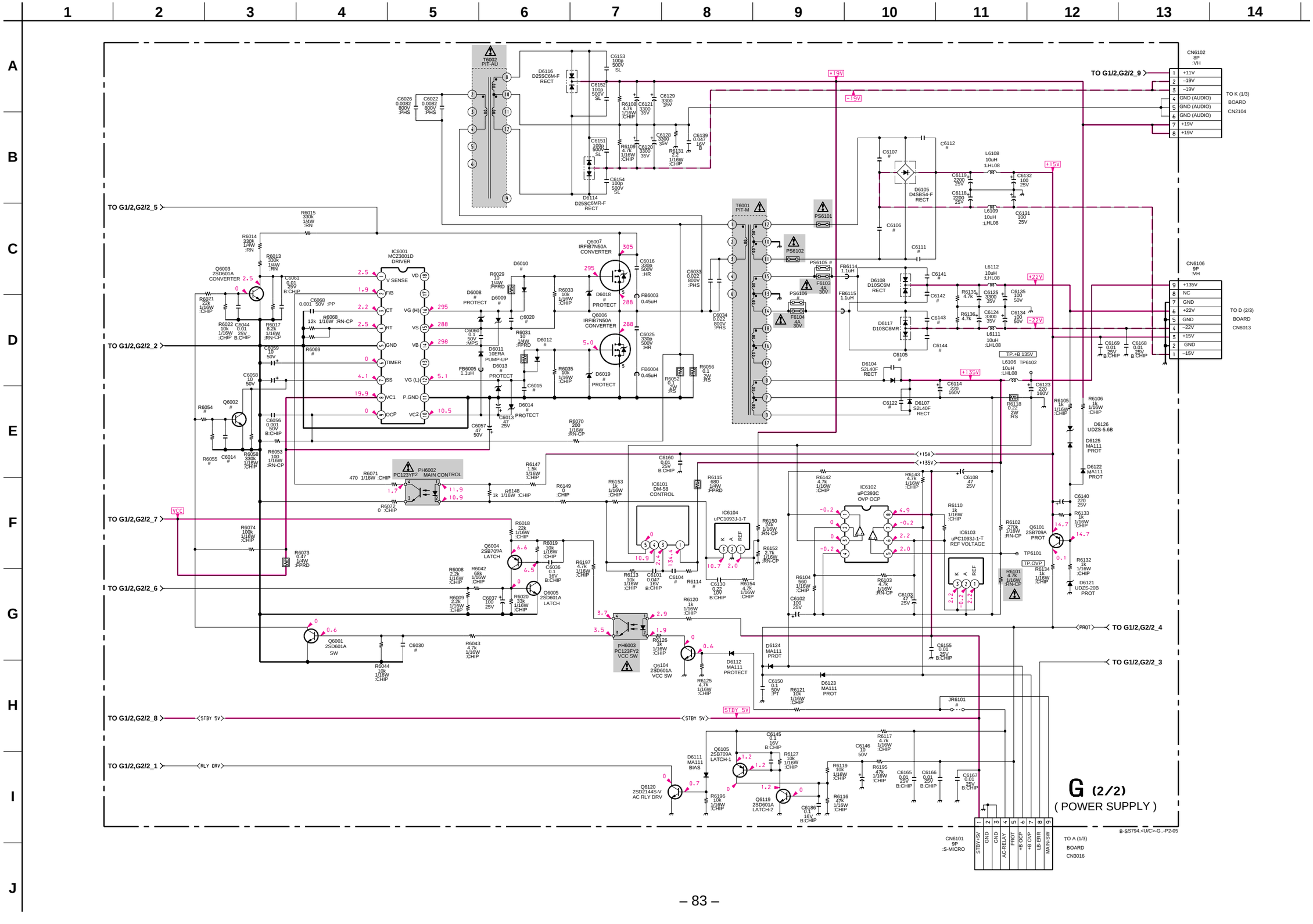
(17) Schematic Diagram of D (3/3) Board



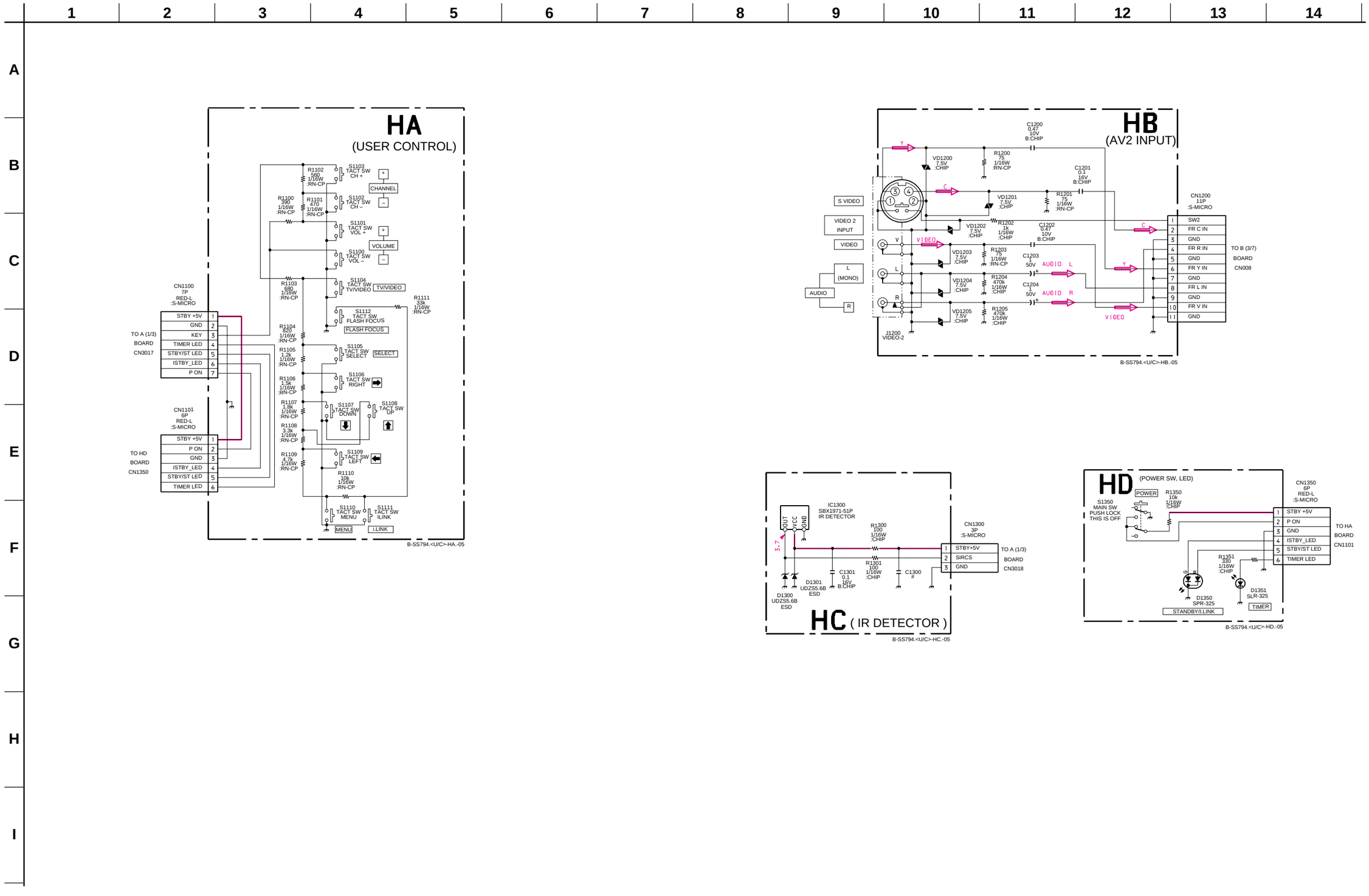
(18) Schematic Diagram of G (1/2) Board



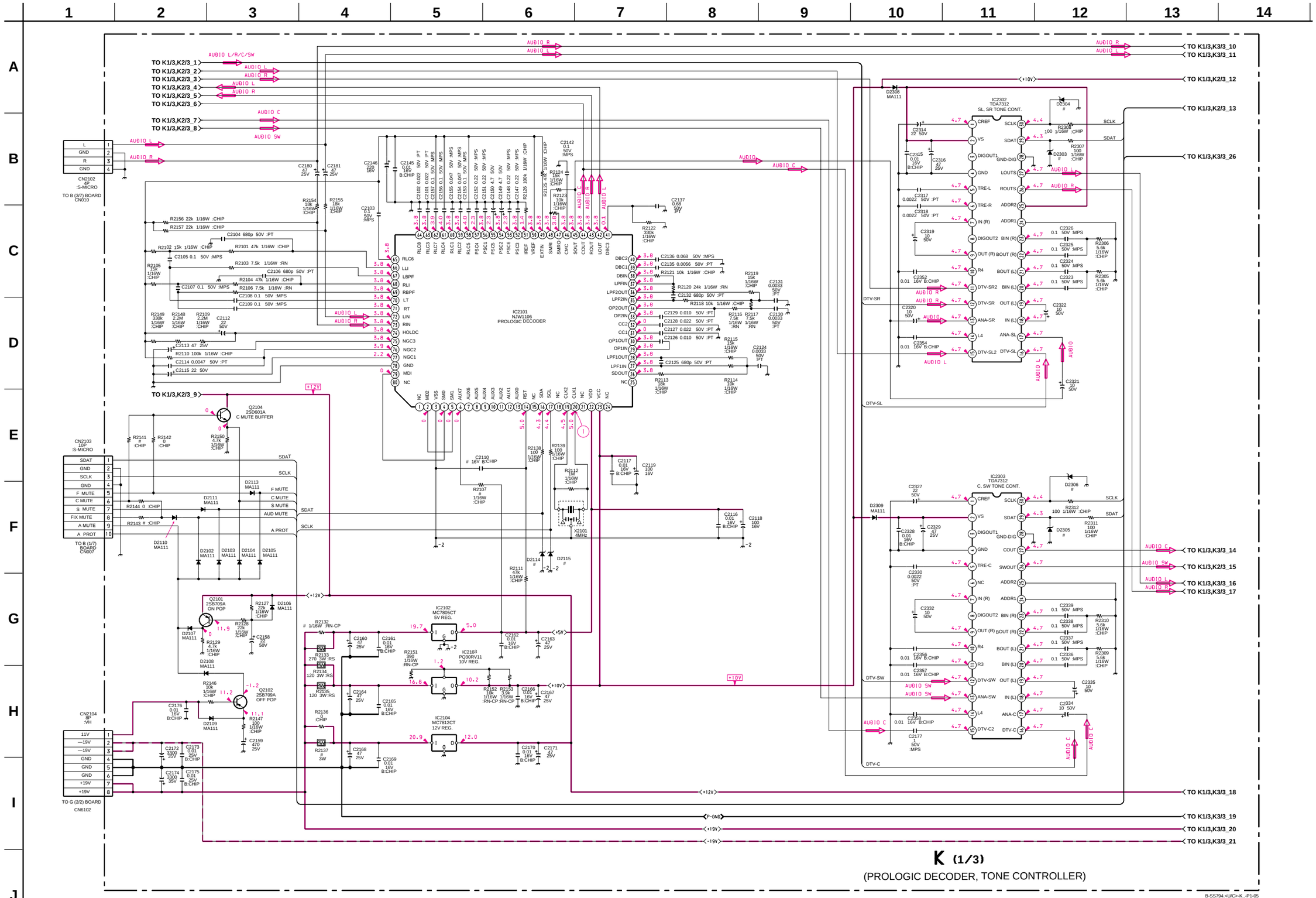
(19) Schematic Diagram of G (2/2) Board



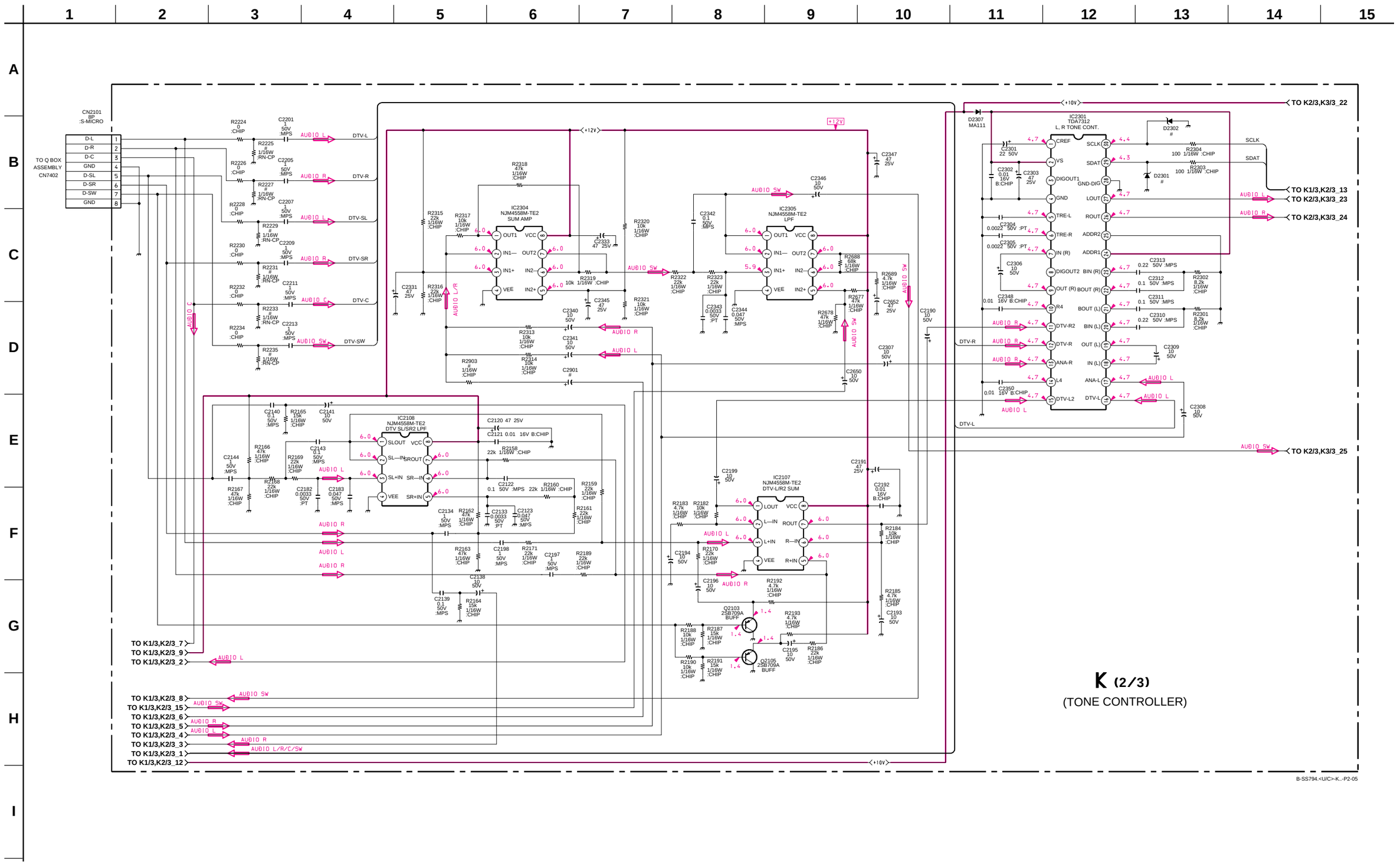
(20) Schematic Diagrams of HA, HB, HC and HD Boards



(21) Schematic Diagram of K (1/3) Board

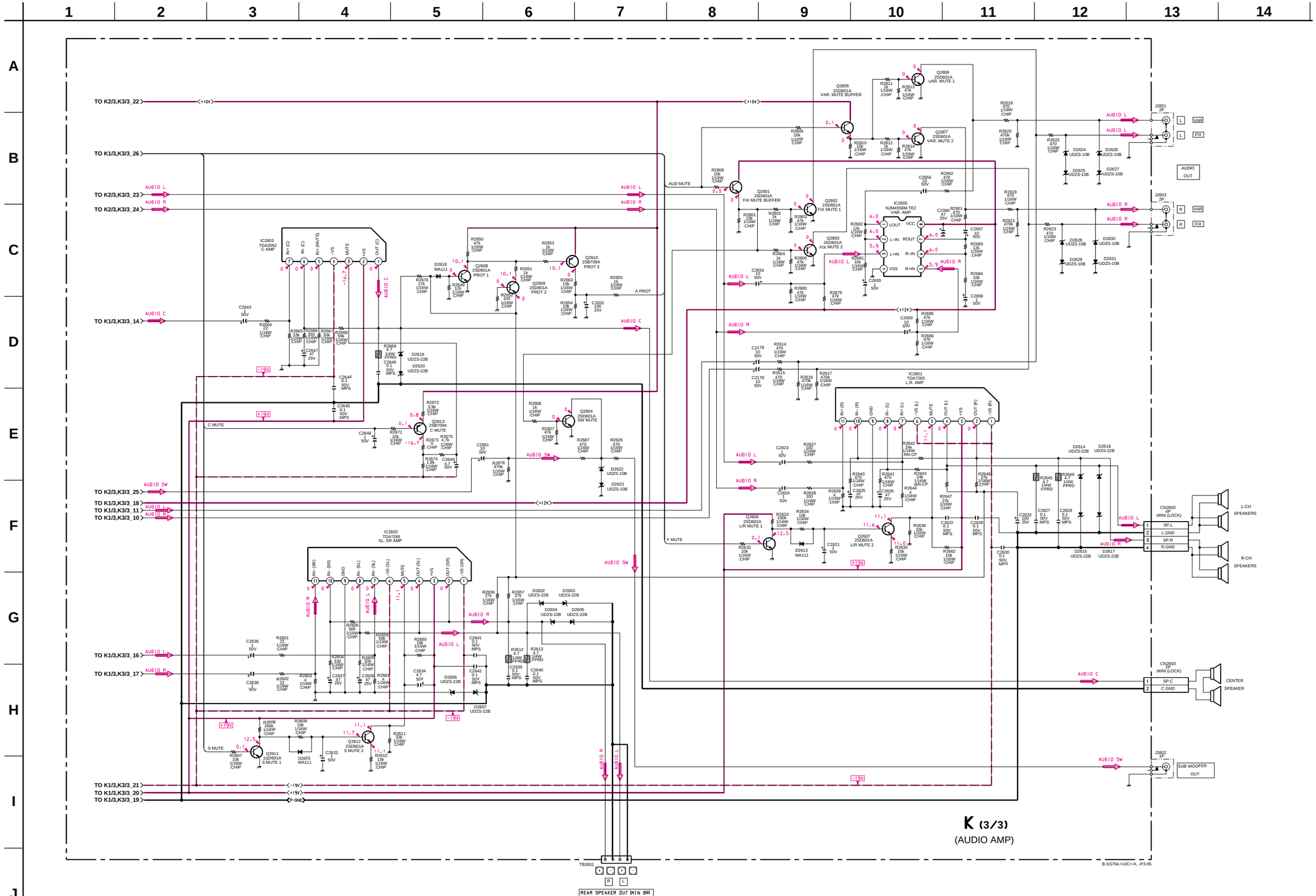


(22) Schematic Diagram of K (2/3) Board

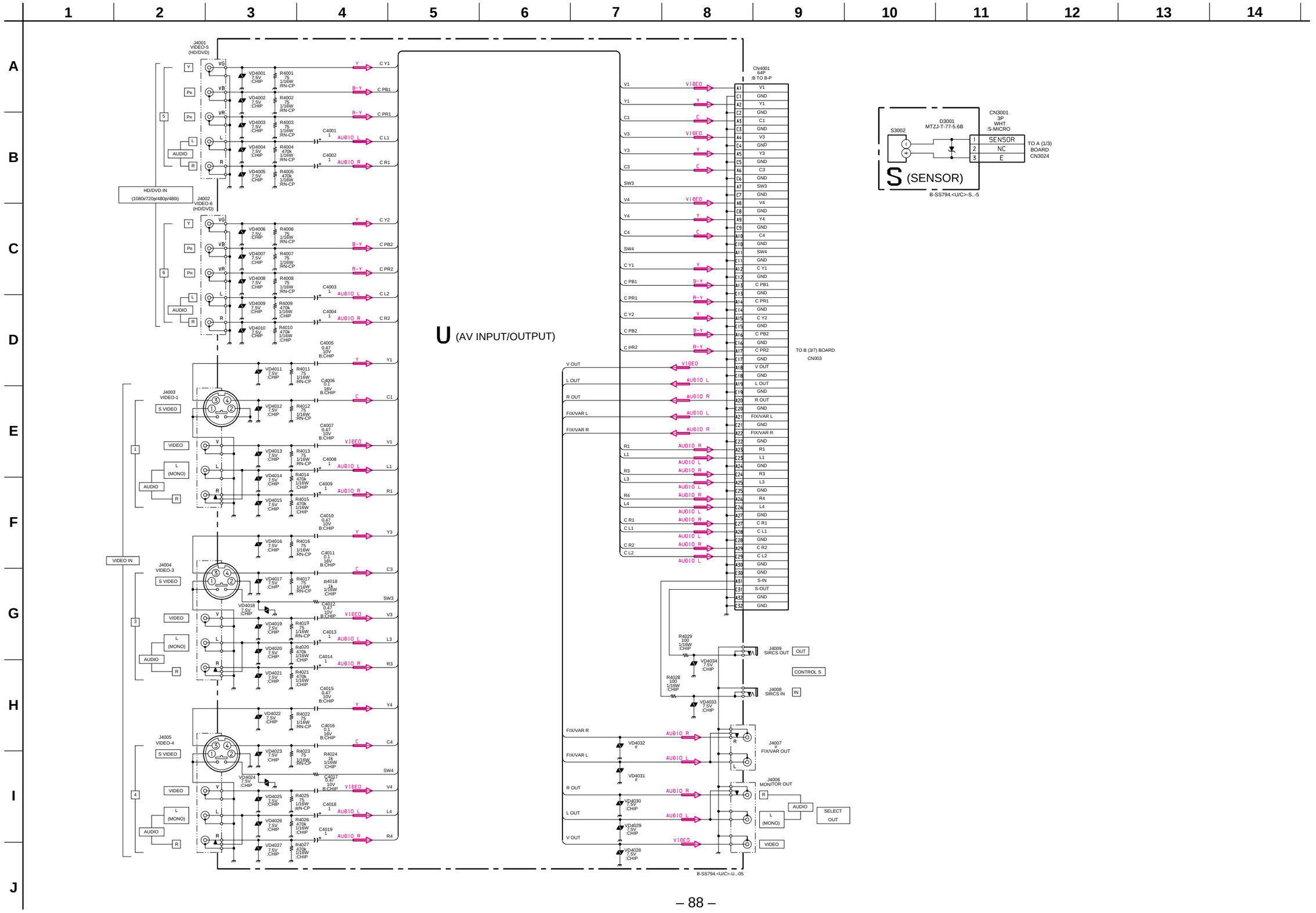


B-SS794.<U/C>-K..-P2-05

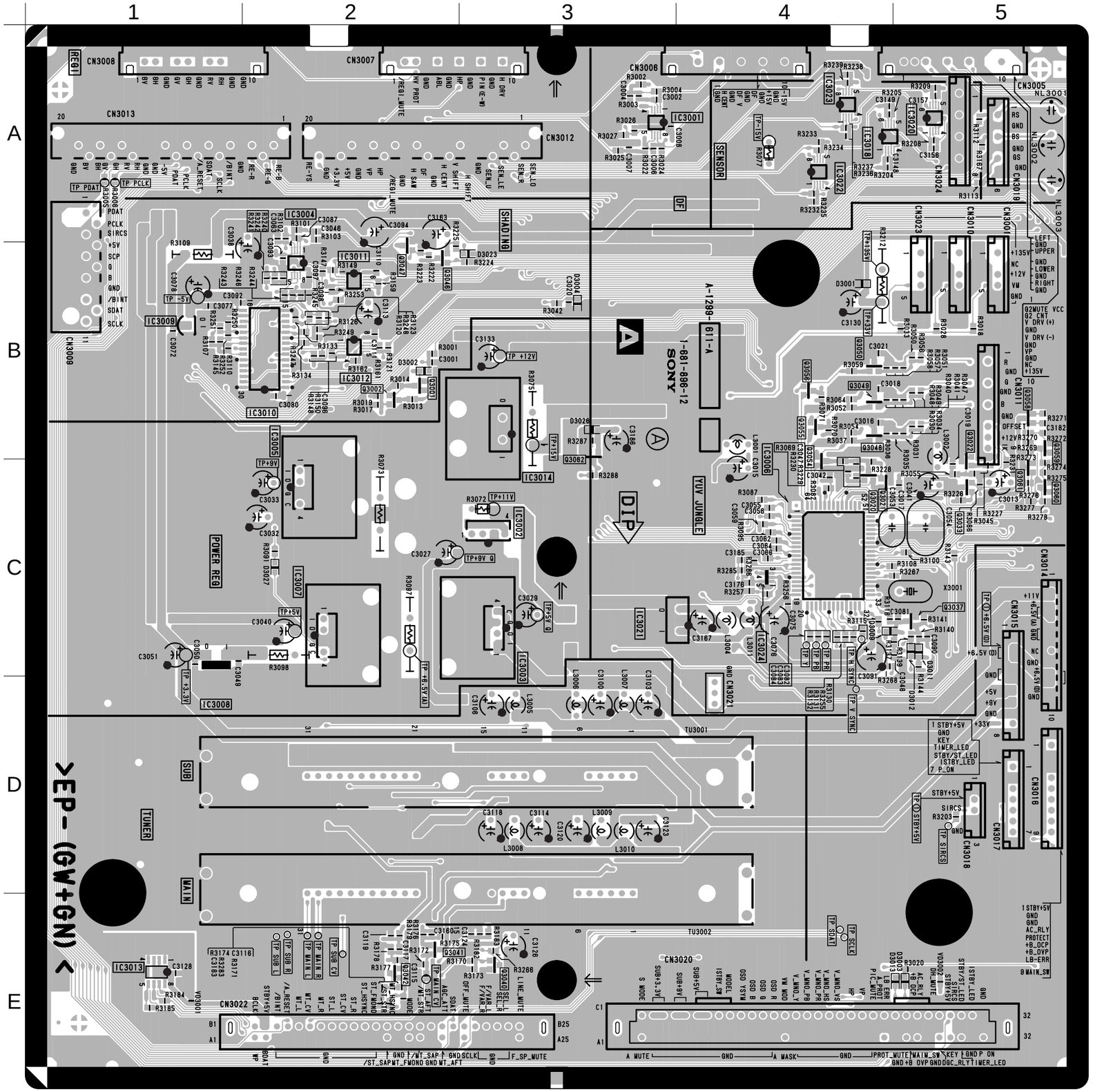
(23) Schematic Diagram of K (3/3) Board



(24) Schematic Diagrams of S and U Boards



— A BOARD (Component Side) —



A VIDEO PROCESSOR, TUNER, SHADING

- **A BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC		
IC3001	A-3	
IC3002	C-3	
IC3003	C-3	
IC3004	B-2	
IC3005	C-2	
IC3006	C-4	
IC3007	C-2	
IC3008	C-1	
IC3009	B-1	
IC3010	B-2	
IC3011	B-2	
IC3012	B-2	
IC3013	E-1	
IC3014	B-3	
IC3018	A-4	
IC3020	A-5	
IC3021	C-4	
IC3022	A-4	
IC3023	A-4	
IC3024	C-4	

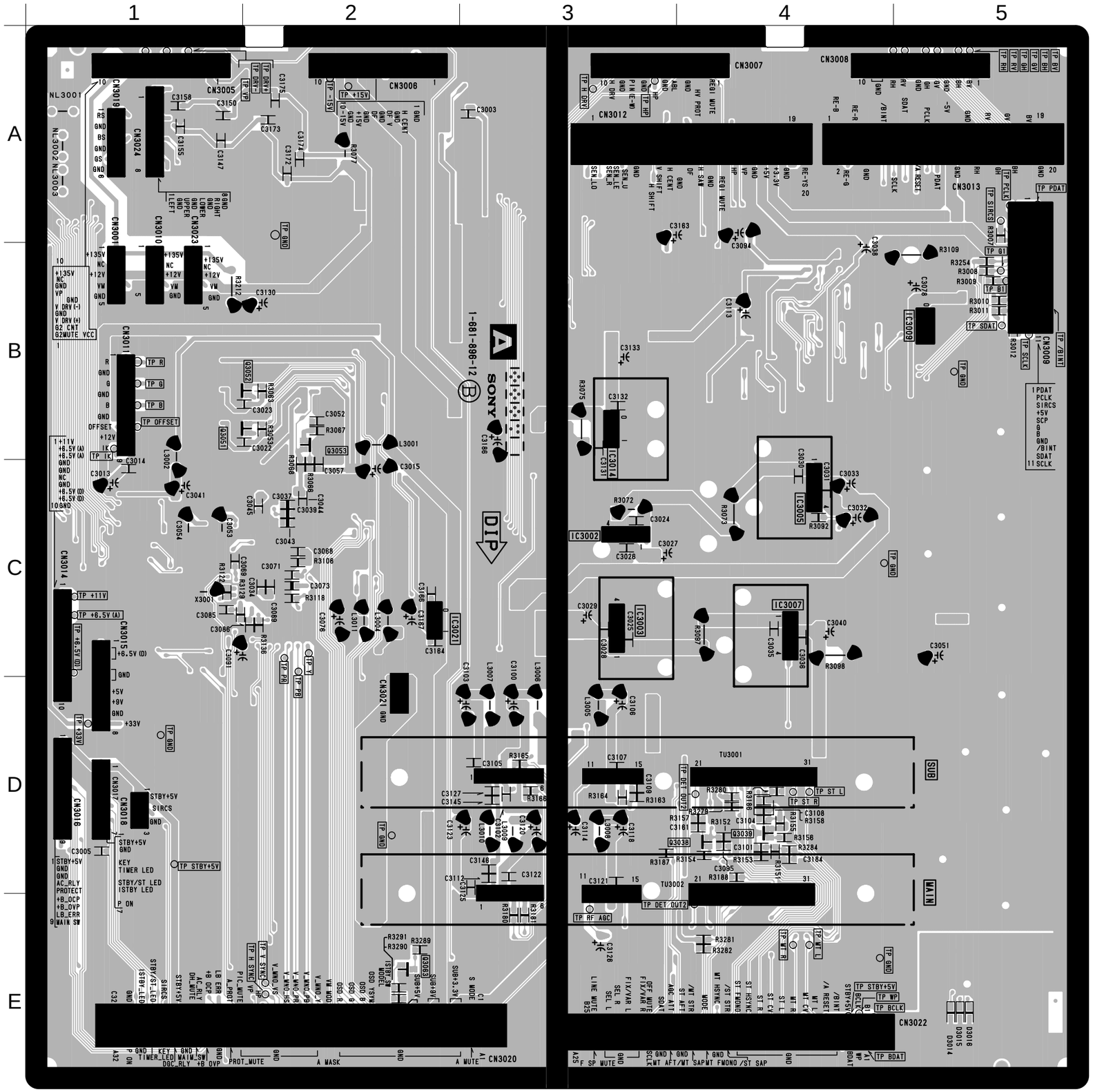
TRANSISTOR		
		*
Q3001	B-2	②
Q3002	B-2	②
Q3020	C-4	②
Q3021	C-4	②
Q3022	C-5	②
Q3033	C-5	②
Q3037	C-5	②
Q3040	E-3	②
Q3041	E-2	②
Q3042	E-2	②
Q3046	B-2	②
Q3047	B-2	②
Q3048	B-4	②
Q3049	B-4	②
Q3050	B-4	②
Q3054	C-4	②
Q3055	B-4	②
Q3056	B-4	②
Q3058	B-5	②
Q3059	B-5	②
Q3060	C-5	②
Q3061	C-5	②
Q3062	B-3	②

DIODE		
		*
D3001	B-4	③
D3002	B-2	③
D3003	E-5	③
D3004	B-3	③
D3009	C-4	③
D3011	C-5	③
D3012	C-5	③
D3013	E-5	③
D3023	B-3	③
D3026	B-3	③

CRYSTAL		
X3001	C-5	

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

— A BOARD (Conductor Side) —



A VIDEO PROCESSOR, TUNER, SHADING

- **A BOARD SEMICONDUCTOR LOCATION (Conductor Side)**

IC		
IC3002	C-3	
IC3003	C-3	
IC3005	C-4	
IC3007	C-4	
IC3009	B-5	
IC3014	B-3	
IC3021	C-2	

TRANSISTOR		
		*
Q3038	D-4	①
Q3039	D-4	①
Q3051	B-1	①
Q3052	B-1	①
Q3053	B-2	①
Q3063	E-2	①

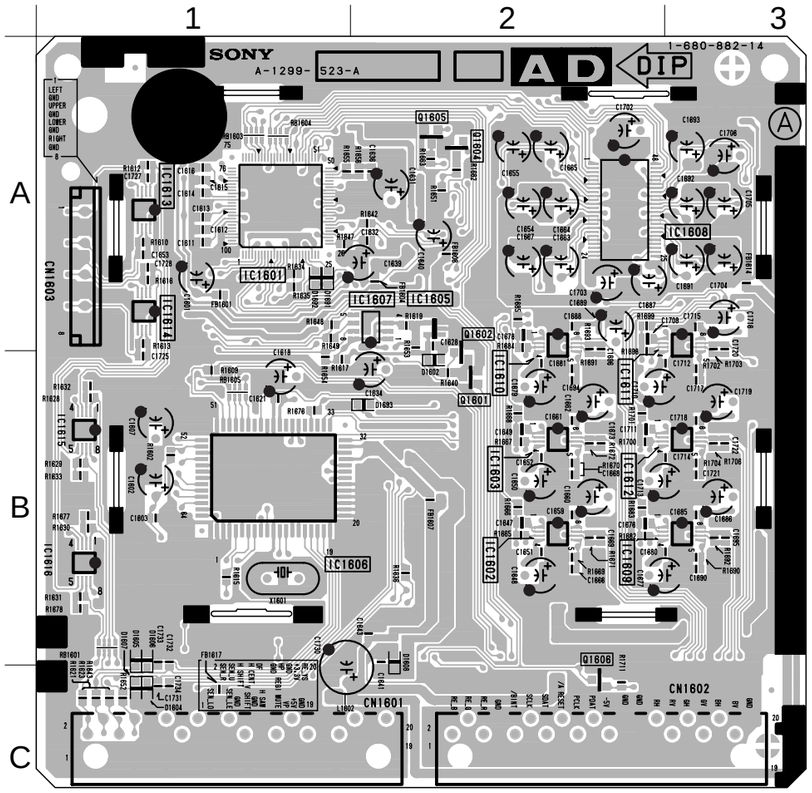
DIODE		
		*
D3014	E-5	③
D3015	E-5	③
D3016	E-5	③

CRYSTAL		
X3001	C-1	

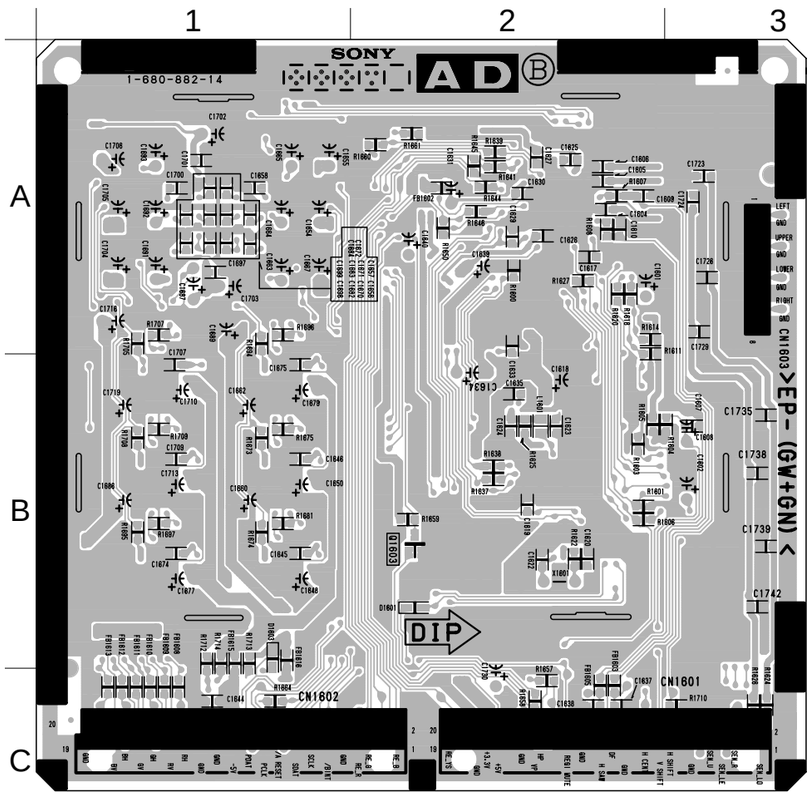
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

AD [PJED, REGI CORRECTION]

— AD BOARD (Component Side) —



— AD BOARD (Conductor Side) —



- **AD BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC			DIODE		
IC1601	A-1				*
IC1602	B-2		D1604	C-1	③
IC1603	B-2		D1605	B-1	③
IC1605	A-2		D1606	B-1	③
IC1606	B-1		D1607	C-1	③
IC1607	A-2		**CRYSTAL**		
IC1608	A-2		X1601	B-1	
IC1609	B-3				
IC1610	A-2				
IC1611	A-3				
IC1612	B-3				
TRANSISTOR					
		*			
Q1604	A-2	②			
Q1605	A-2	②			
Q1606	C-2	②			

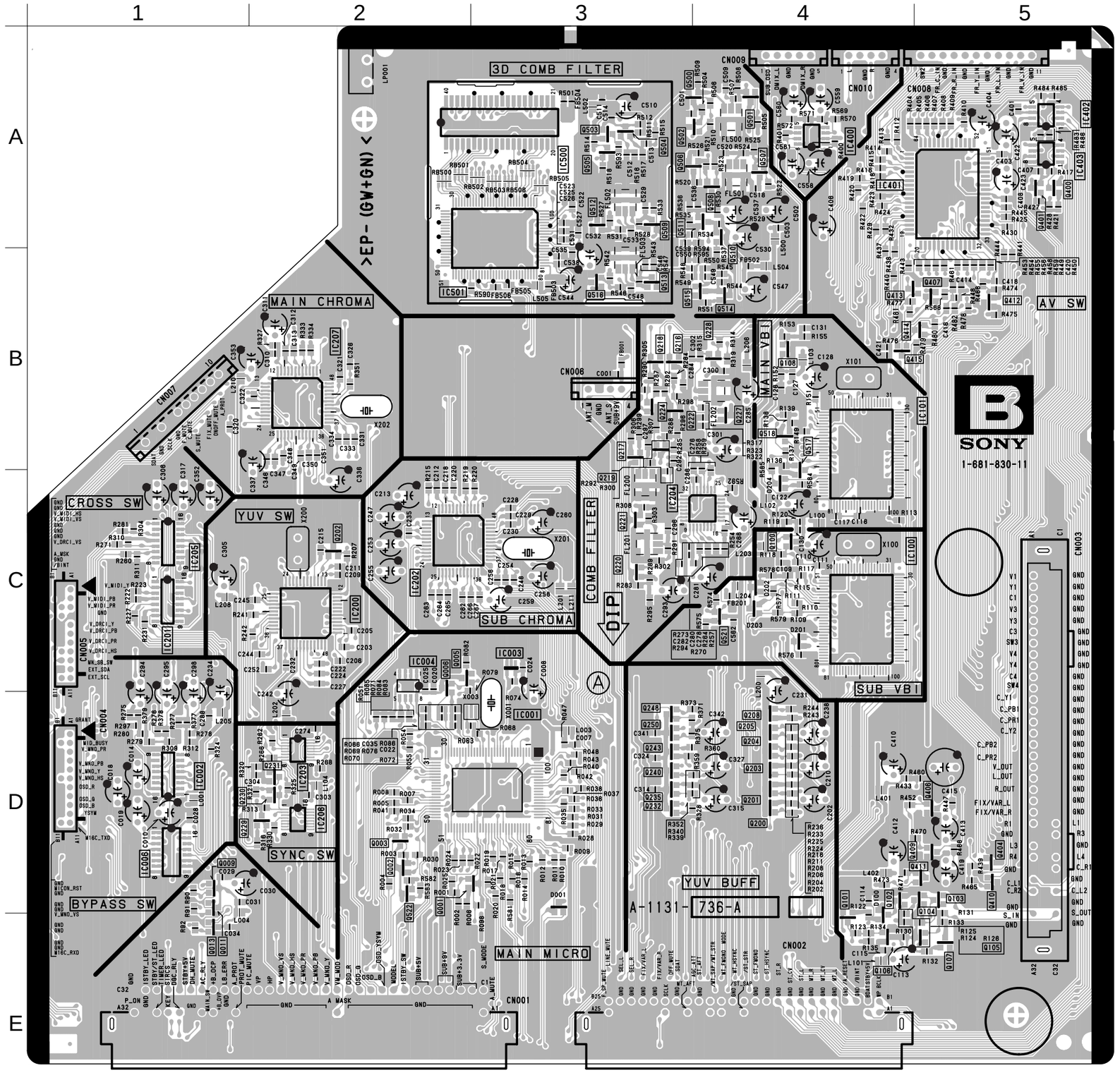
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

- **AD BOARD SEMICONDUCTOR LOCATION (Conductor Side)**

TRANSISTOR			DIODE		
		*			*
Q1603	B-2	①	D1601	B-2	③
			D1603	B-1	③
			CRYSTAL		
			X1601	B-2	

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

— B BOARD (Component Side) —



B MAIN MICON, YC JUNGLE, COMB FILTER, AV SWITCH

- **B BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC		
IC001	D-3	
IC002	D-1	
IC003	C-3	
IC004	C-2	
IC006	D-1	
IC100	C-4	
IC101	B-4	
IC200	C-2	
IC201	C-1	
IC202	C-2	
IC203	D-2	
IC204	C-4	
IC205	C-1	
IC206	D-2	
IC207	B-2	
IC400	A-4	
IC401	A-5	
IC402	A-5	
IC403	A-5	
IC500	A-3	
IC501	A-3	

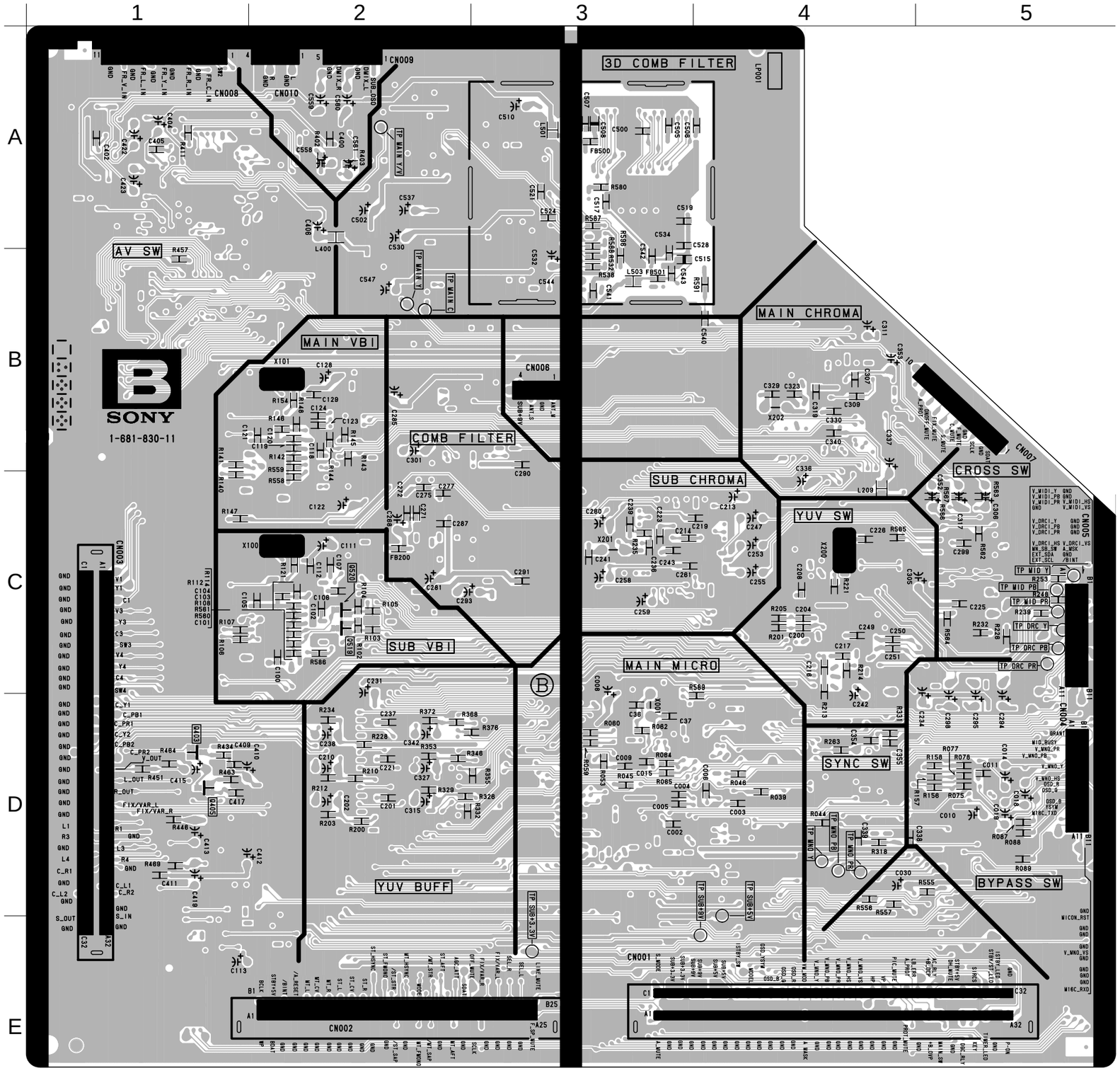
TRANSISTOR			*
Q001	D-3	②	
Q002	D-2	②	
Q003	D-2	②	
Q005	C-2	②	
Q006	C-2	②	
Q009	D-1	②	
Q011	D-1	②	
Q013	E-1	②	
Q100	C-4	②	
Q101	E-4	②	
Q102	D-4	②	
Q103	D-5	②	
Q104	D-5	②	
Q105	E-5	②	
Q106	E-4	②	
Q107	E-5	②	
Q108	B-4	②	
Q200	D-4	②	
Q201	D-4	②	
Q202	C-2	②	
Q203	D-4	②	
Q204	D-4	②	
Q205	D-4	②	
Q208	D-4	②	
Q216	B-3	②	
Q217	B-3	②	
Q218	B-3	②	
Q219	B-3	②	
Q220	C-3	②	
Q221	C-3	②	
Q222	B-3	②	
Q224	B-3	②	
Q227	B-4	②	
Q228	B-4	②	
Q229	D-2	②	
Q230	D-2	②	
Q231	D-2	②	
Q232	D-3	②	
Q235	D-3	②	
Q240	D-3	②	
Q243	D-3	②	
Q248	D-3	②	
Q250	D-3	②	
Q400	A-5	②	
Q401	A-5	②	
Q404	D-5	②	
Q406	D-5	②	
Q407	B-5	②	
Q409	D-5	②	
Q410	D-5	②	
Q411	D-5	②	
Q412	B-5	②	
Q413	B-4	②	
Q414	B-5	②	
Q415	B-4	②	
Q500	A-3	②	
Q501	A-4	②	
Q502	A-3	②	
Q503	A-3	②	
Q504	A-3	②	
Q505	A-3	②	
Q506	A-3	②	
Q507	A-4	②	
Q508	A-4	②	
Q509	A-3	②	
Q510	A-4	②	
Q511	A-4	②	
Q512	A-3	②	
Q513	B-3	②	
Q514	B-4	②	
Q515	B-4	②	
Q516	B-3	②	
Q517	B-4	②	
Q518	B-4	②	
Q521	C-4	②	
Q522	D-2	②	

DIODE			*
D001	D-3	⑨	
D100	E-4	⑨	
D201	C-4	⑨	
D202	C-4	⑪	
D203	C-4	⑪	
D204	C-4	⑨	

CRYSTAL	
X001	D-3
X003	D-2
X100	C-4
X101	B-4
X200	C-2
X201	C-3
X202	B-2

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

— B BOARD (Conductor Side) —



B [MAIN MICON, YC JUNGLE, COMB FILTER, AV SWITCH]

- **B BOARD SEMICONDUCTOR LOCATION (Conductor Side)**

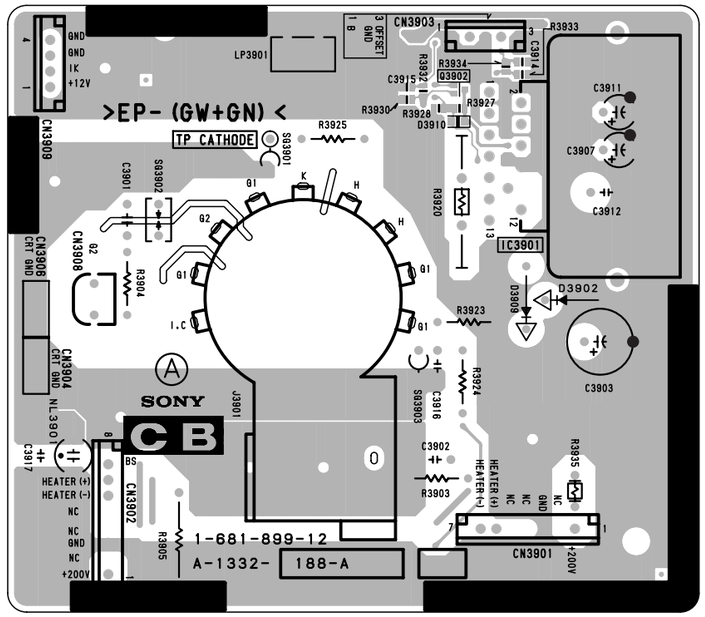
TRANSISTOR		
		✱
Q403	D-1	①
Q405	D-1	①
Q519	C-2	①
Q520	C-2	①

CRYSTAL	
X001	D-3
X100	C-2
X101	B-2
X200	C-4
X201	C-3
X202	B-4

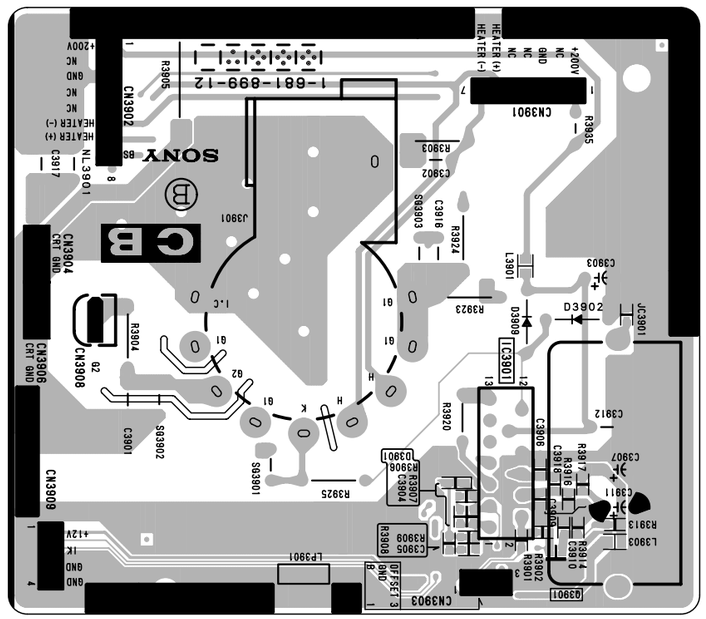
✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

CB [B CRT DRIVE]

— CB BOARD (Component Side) —



— CB BOARD (Conductor Side) —



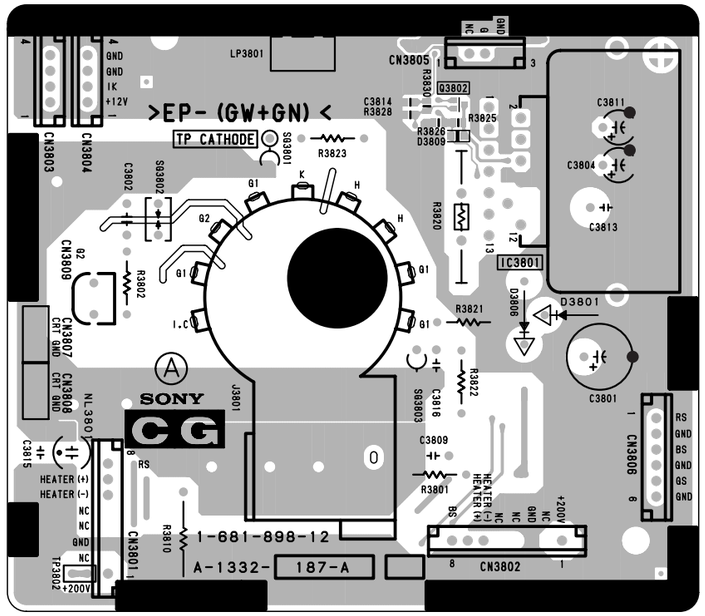
CB BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D3901, 3910	③
Q3901	①
Q3902	⑬

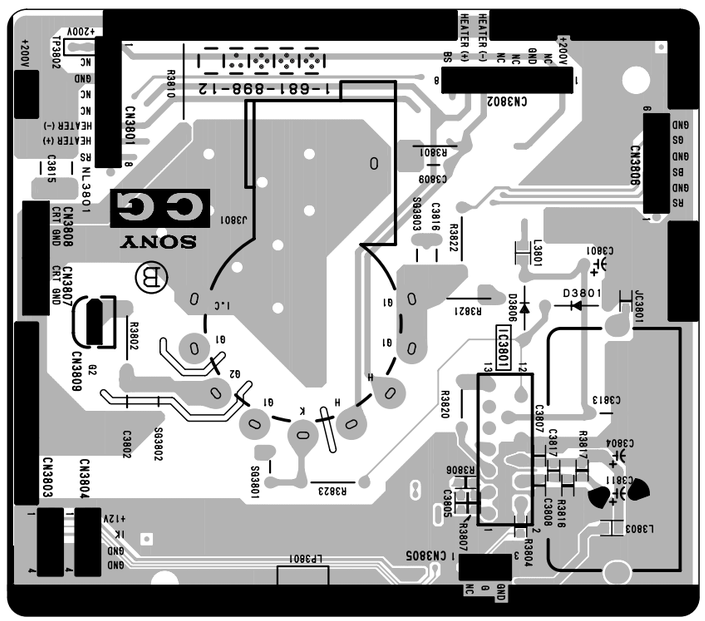
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

CG [G CRT DRIVE]

— CG BOARD (Component Side) —



— CG BOARD (Conductor Side) —



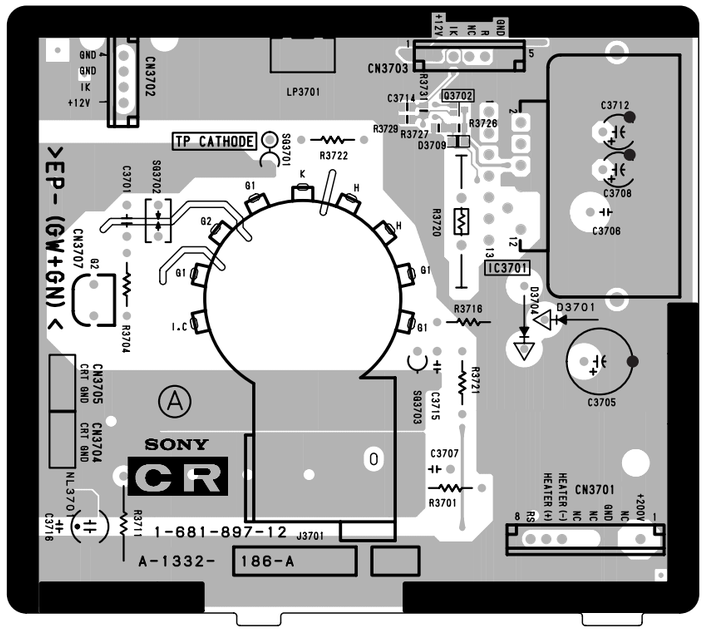
CG BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D3809	③
Q3802	⑬

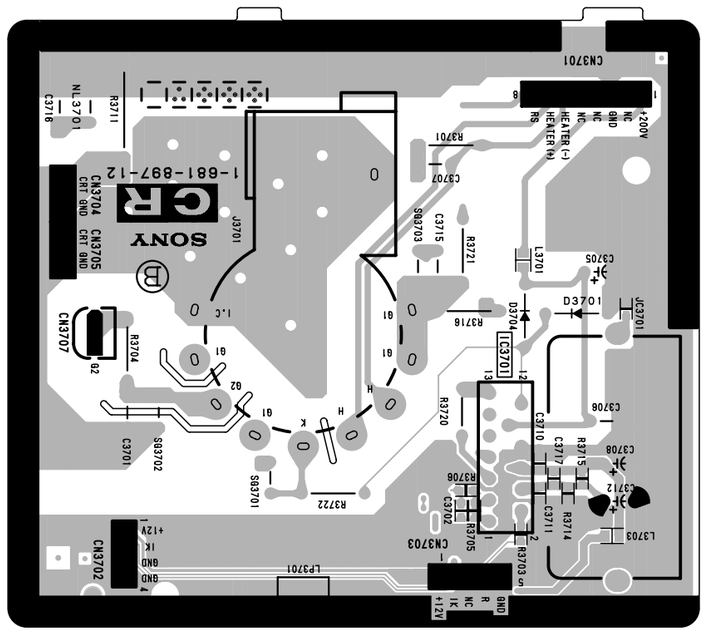
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

CR [R CRT DRIVE]

— CR BOARD (Component Side) —



— CR BOARD (Conductor Side) —



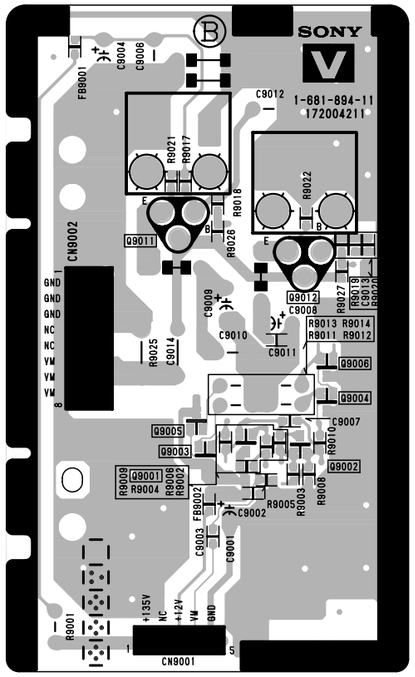
CR BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D3709	③
Q3702	⑬

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

V [VM]

— V BOARD —



V BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

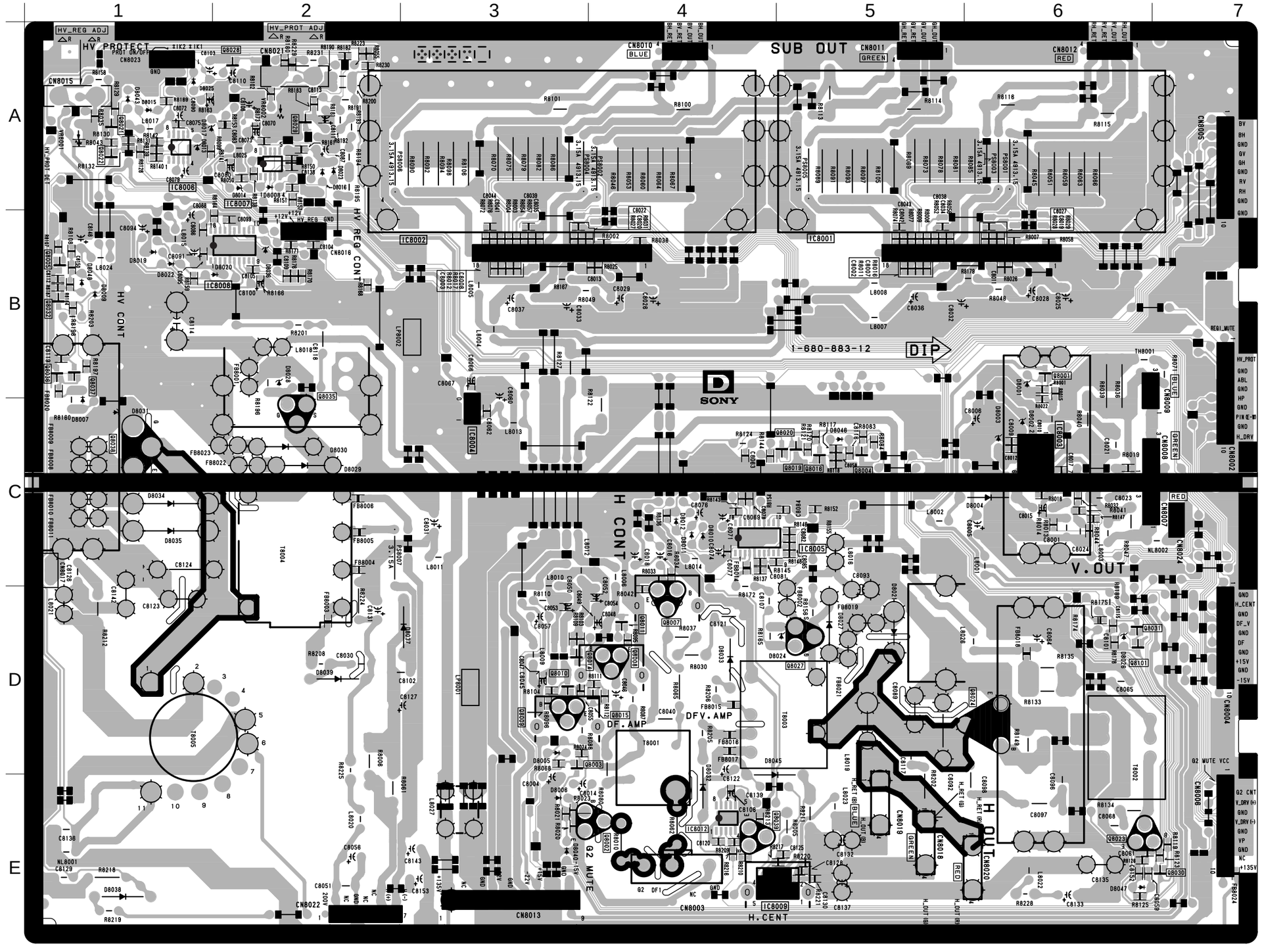
Ref.	∗
Q9001 – 9006	①

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

D [DEF, HV REG, D.F., CONVERGENCE OUT]

— D BOARD —

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

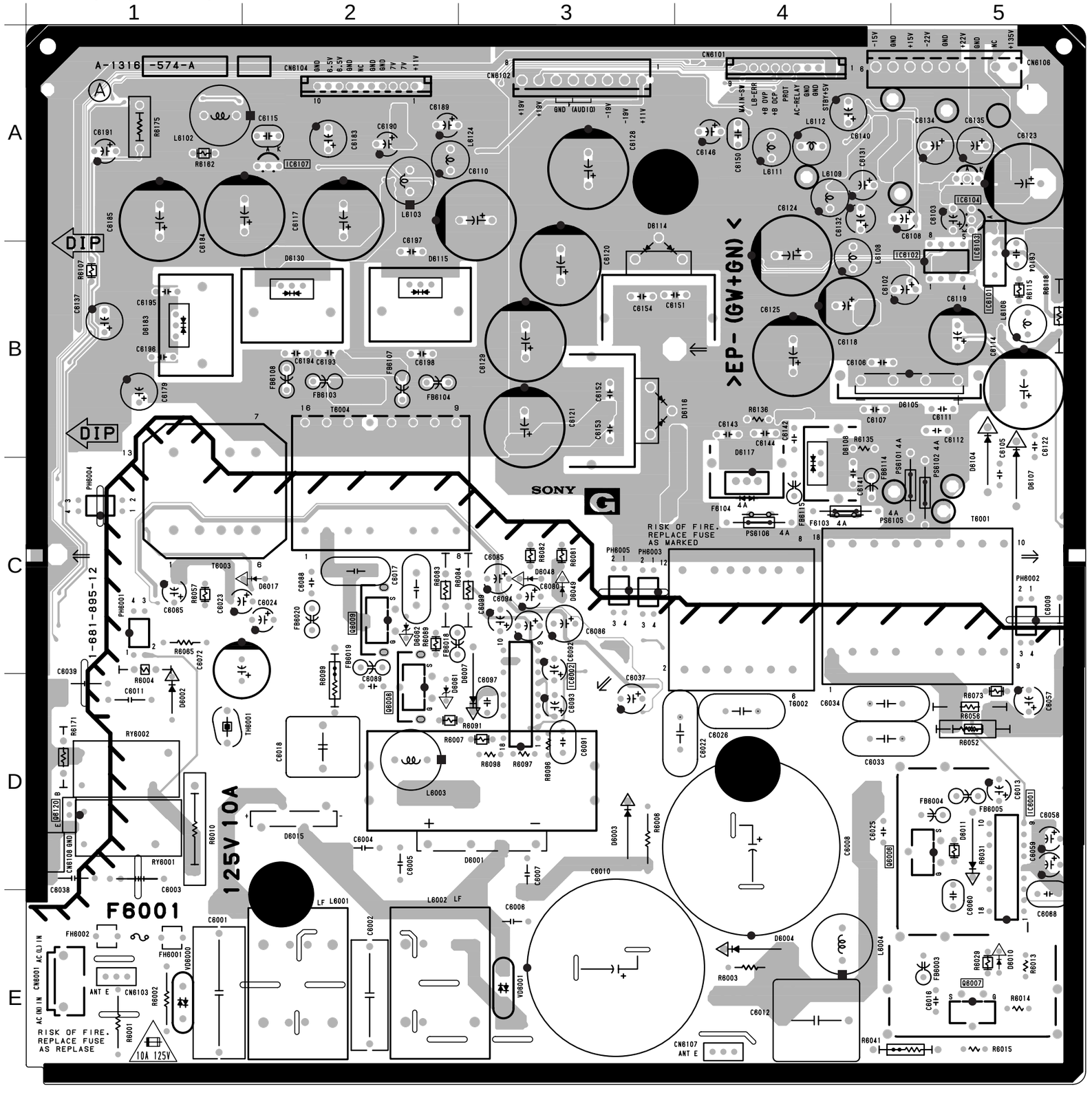


- **D BOARD SEMICONDUCTOR LOCATION**

IC		DIODE		
				*
IC8001	B-5	D8001	B-6	–
IC8002	B-3	D8002	C-6	–
IC8003	C-6	D8003	C-6	–
IC8004	C-3	D8004	C-6	–
IC8005	C-4	D8005	D-3	–
IC8006	A-1	D8006	E-3	–
IC8007	A-2	D8007	C-1	–
IC8008	B-2	D8008	A-2	–
IC8009	E-4	D8010	C-4	–
IC8012	E-4	D8011	C-4	–
		D8012	C-4	–
TRANSISTOR		D8013	A-1	–
		D8014	A-2	–
	*	D8015	A-1	–
Q8001	B-6	① D8016	A-2	–
Q8002	E-4	– D8019	B-1	–
Q8003	D-3	① D8020	B-2	–
Q8004	C-5	① D8021	D-5	–
Q8005	B-1	① D8022	B-1	–
Q8007	D-4	– D8023	A-2	–
Q8008	D-4	– D8024	D-5	–
Q8009	D-3	– D8025	A-1	–
Q8010	D-3	① D8026	D-6	–
Q8011	D-4	① D8027	D-5	–
Q8014	D-3	① D8028	B-2	–
Q8015	D-4	① D8029	C-2	–
Q8016	C-5	① D8030	C-2	–
Q8019	C-5	① D8031	C-1	–
Q8020	C-5	① D8032	E-4	–
Q8021	A-1	① D8033	D-4	–
Q8022	A-1	① D8034	C-1	–
Q8023	E-6	– D8035	C-1	–
Q8024	D-6	– D8036	B-2	–
Q8027	D-5	– D8037	D-3	–
Q8028	A-2	① D8038	E-1	–
Q8029	A-2	① D8039	D-2	–
Q8030	E-7	① D8040	E-3	–
Q8031	D-6	① D8043	A-1	–
Q8032	B-1	① D8045	E-4	–
Q8035	C-2	– D8046	C-5	–
Q8036	B-1	① D8047	E-6	–
Q8037	B-1	① D8048	B-1	–
Q8038	C-1	–		
Q8039	E-4	–		
Q8101	D-6	①		

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

— G BOARD (Component Side) —



G [POWER SUPPLY]

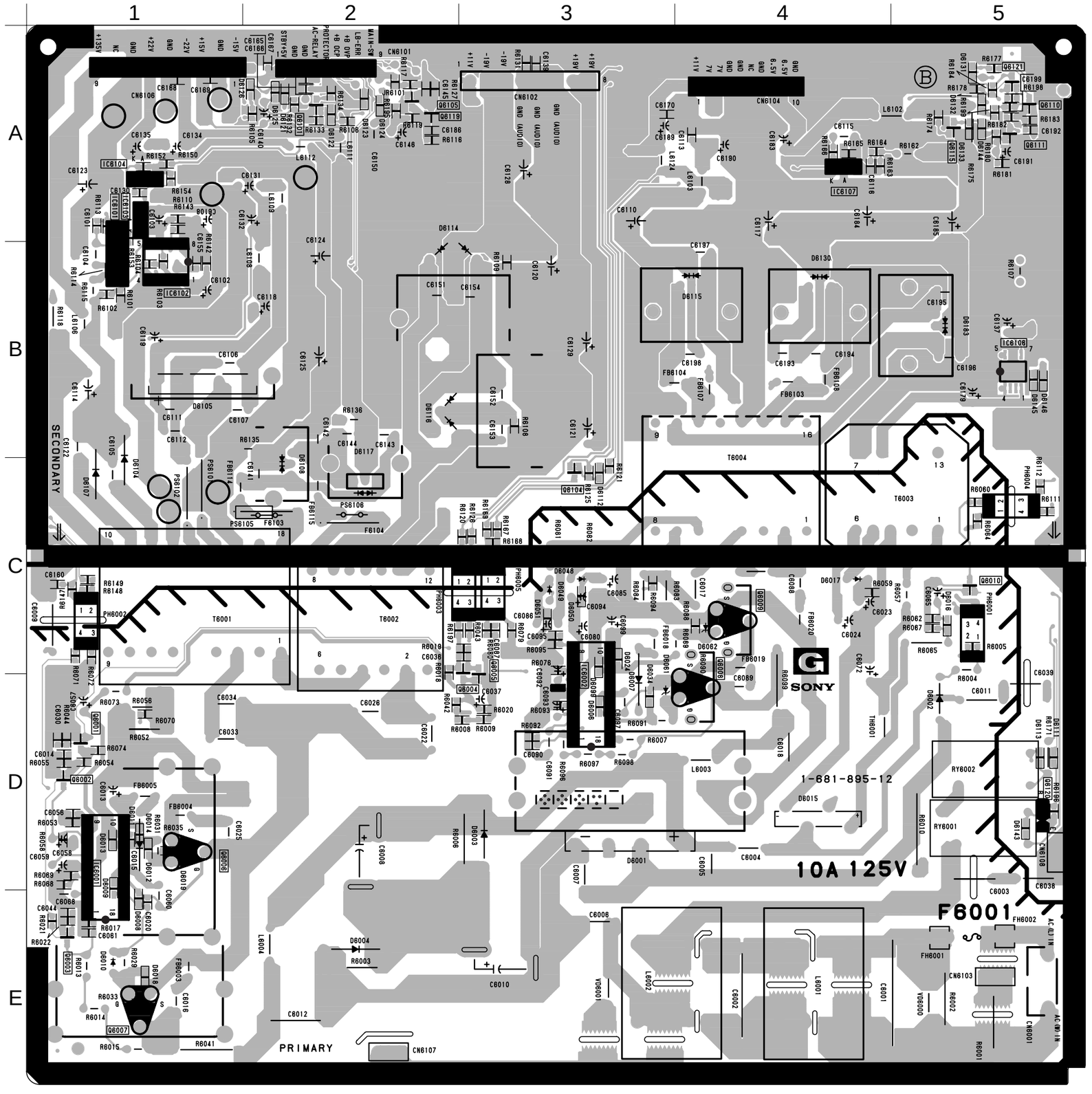
- **G BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC	
IC6001	D-5
IC6002	D-3
IC6101	B-5
IC6102	B-5
IC6103	A-5
IC6104	A-5
IC6107	A-2

TRANSISTOR	
Q6006	D-5
Q6007	E-5
Q6008	D-2
Q6009	C-2
Q6120	D-1

DIODE	
D6001	D-3
D6002	D-1
D6003	D-3
D6004	E-4
D6007	D-3
D6011	D-5
D6015	D-2
D6017	C-2
D6048	C-3
D6049	C-3
D6061	D-2
D6062	C-2
D6104	C-5
D6105	B-5
D6107	C-5
D6108	C-4
D6114	B-3
D6115	B-2
D6116	B-3
D6117	C-4
D6130	B-2
D6183	B-1

— G BOARD (Conductor Side) —



G [POWER SUPPLY]

- **G BOARD SEMICONDUCTOR LOCATION (Conductor Side)**

IC		
IC6001	D-1	
IC6002	D-3	
IC6101	B-1	
IC6102	B-1	
IC6103	A-1	
IC6104	A-1	
IC6106	B-5	
IC6107	A-4	

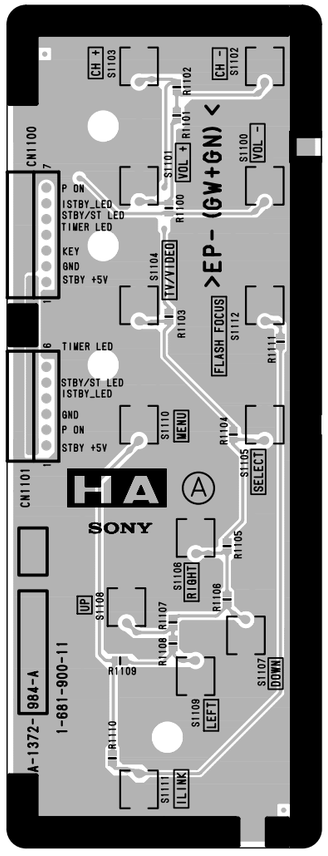
TRANSISTOR		
		*
Q6001	D-1	1
Q6003	E-1	1
Q6004	C-3	1
Q6005	D-3	1
Q6006	D-1	–
Q6007	E-1	–
Q6008	D-4	–
Q6009	C-4	–
Q6010	C-5	1
Q6101	A-2	1
Q6104	C-3	1
Q6105	A-2	1
Q6110	A-5	1
Q6111	A-5	1
Q6115	A-5	1
Q6119	A-2	1
Q6120	D-5	–
Q6121	A-5	1

DIODE		
		*
D6001	D-3	–
D6002	D-5	–
D6003	D-3	–
D6004	E-2	–
D6007	D-3	–
D6011	D-1	–
D6015	D-4	–
D6016	C-5	3
D6017	C-4	–
D6048	C-3	–
D6049	C-3	–
D6050	C-3	3
D6051	C-3	3
D6061	D-3	–
D6062	C-4	–
D6104	C-1	–
D6105	B-1	–
D6107	C-1	–
D6108	C-2	–
D6111	D-5	3
D6112	C-3	3
D6113	D-5	3
D6114	B-2	–
D6115	B-4	–
D6116	B-2	–
D6117	C-2	–
D6121	A-2	3
D6122	A-2	3
D6123	A-2	3
D6124	A-2	3
D6125	A-2	3
D6126	A-2	3
D6130	B-4	–
D6131	A-5	3
D6132	A-5	3
D6133	A-5	3
D6143	D-5	3
D6144	A-5	3
D6183	B-5	–

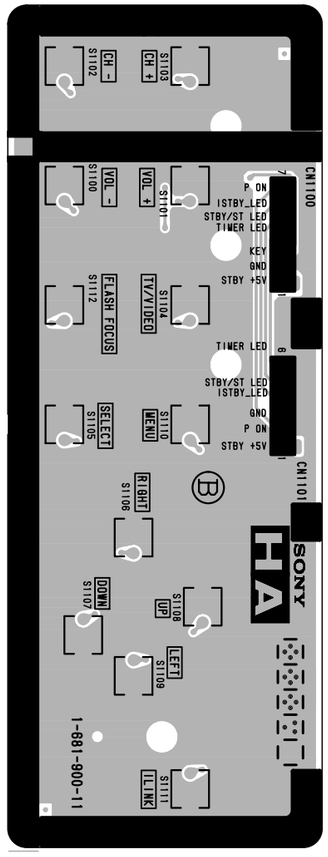
*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

HA [USER CONTROL]

— HA BOARD (Component Side) —

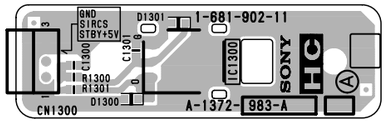


— HA BOARD (Conductor Side) —

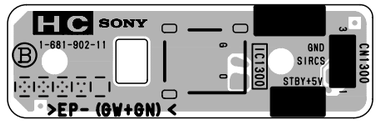


HC [IR DETECTOR]

— HC BOARD (Component Side) —



— HC BOARD (Conductor Side) —



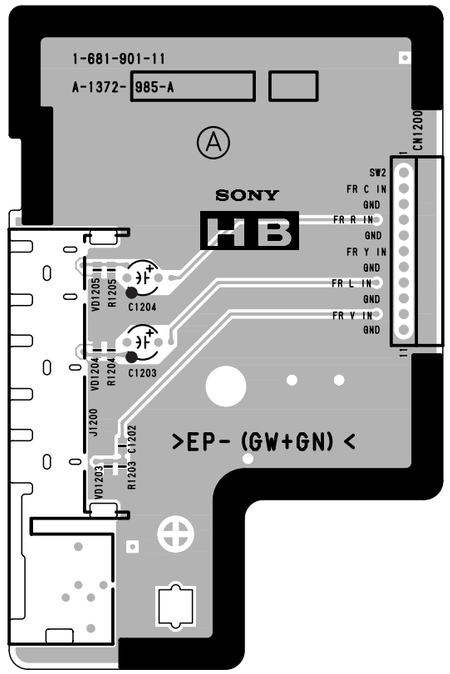
HC BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D1300, 1301	③

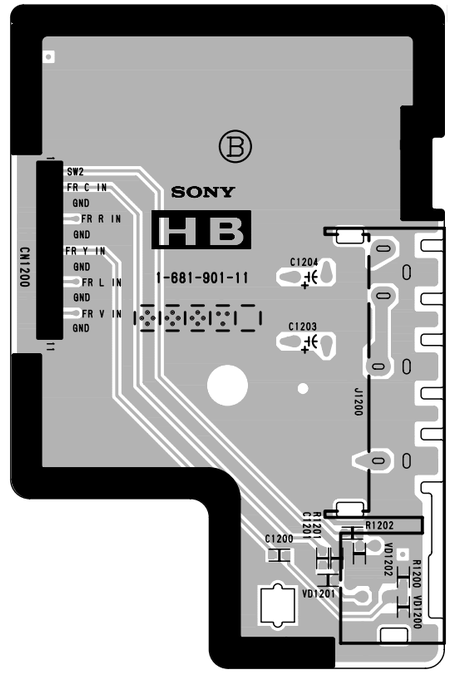
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

HB [AV2 INPUT]

— HB BOARD (Component Side) —

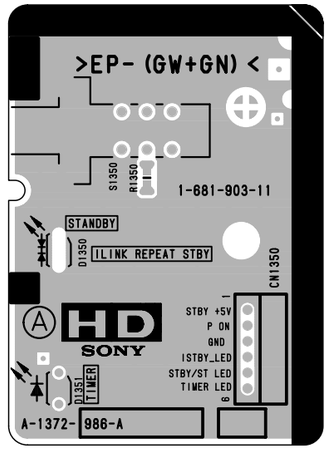


— HB BOARD (Conductor Side) —

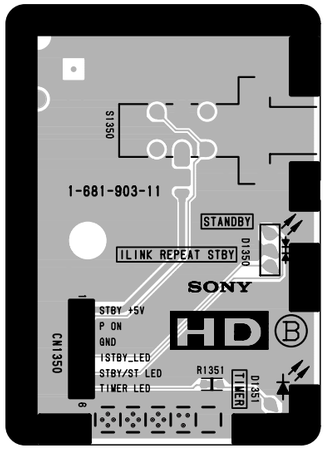


HD [POWER SW, LED]

— HD BOARD (Component Side) —

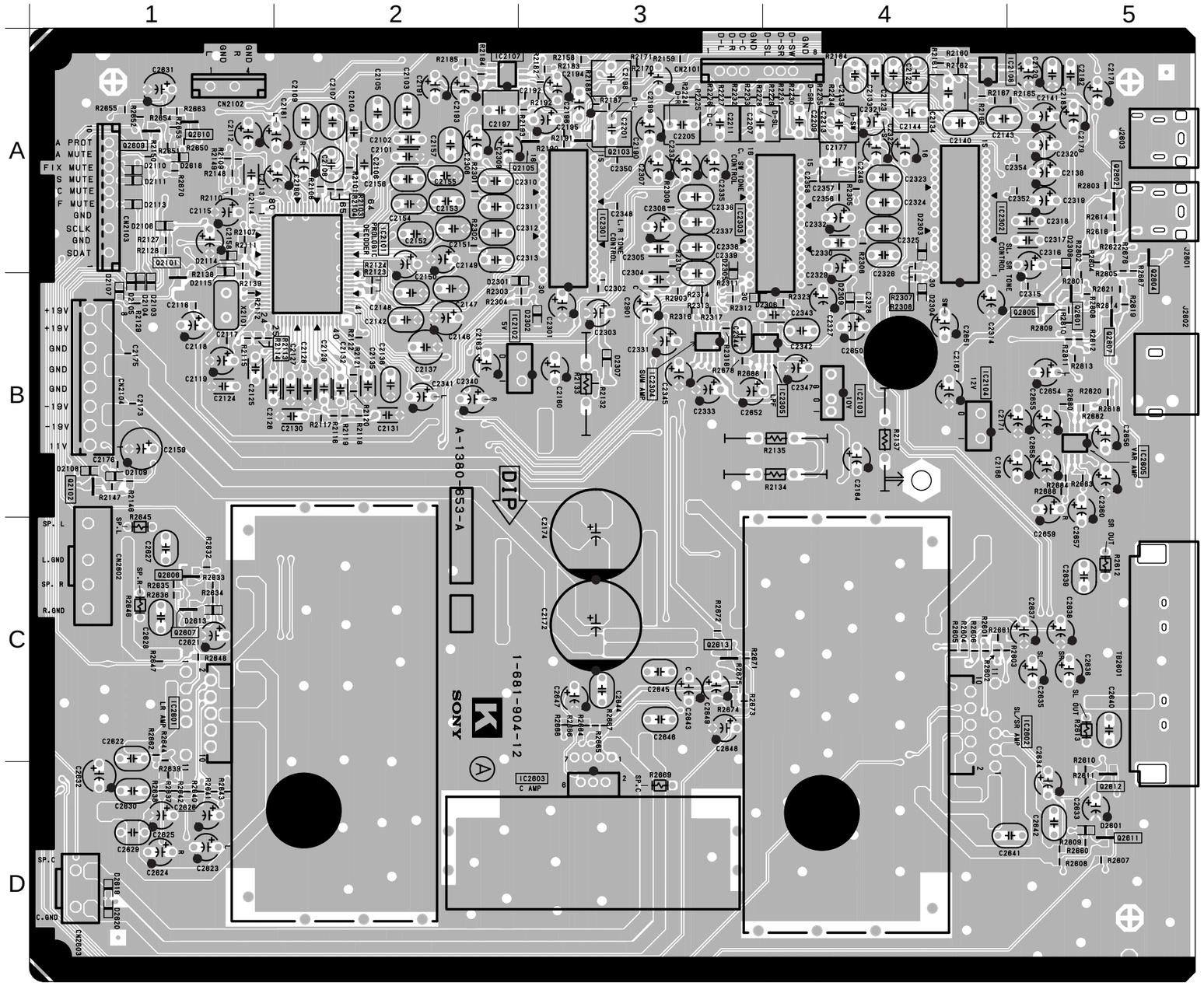


— HD BOARD (Conductor Side) —



K [PROLOGIC DECODER, TONE CONTROL]

— K BOARD (Component Side) —



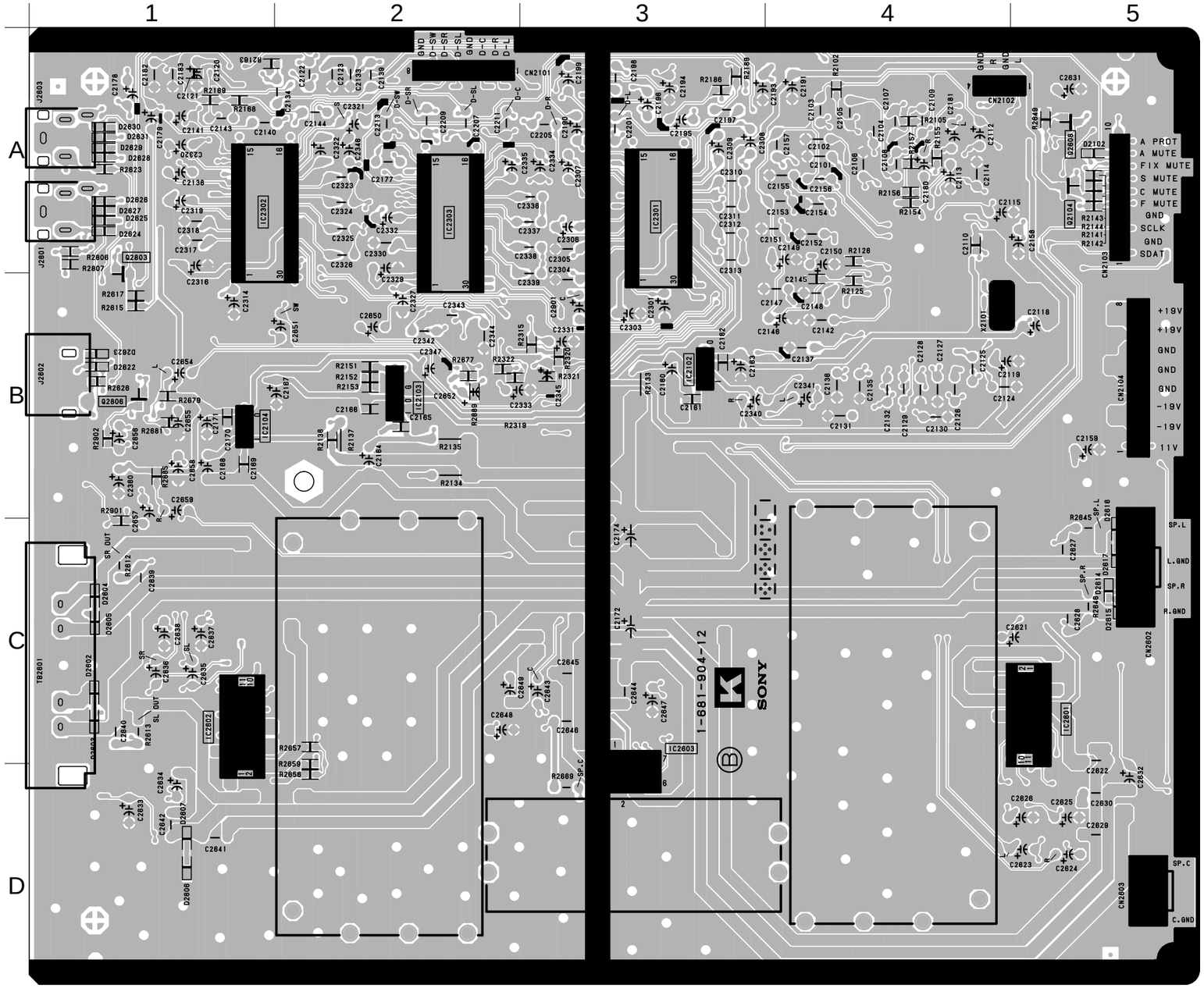
- **K BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC			DIODE		
					*
IC2101	A-2		D2103	B-1	③
IC2102	B-3		D2104	B-1	③
IC2103	B-4		D2105	B-1	③
IC2104	B-4		D2106	A-1	③
IC2107	A-2		D2107	B-1	③
IC2108	A-4		D2108	B-1	③
IC2301	A-3		D2109	B-1	③
IC2302	A-4		D2110	A-1	③
IC2303	A-4		D2111	A-1	③
IC2304	B-3		D2113	A-1	③
IC2305	B-4		D2307	B-3	③
IC2601	C-1		D2308	A-5	③
IC2602	C-4		D2309	B-4	③
IC2603	D-3		D2601	D-5	③
IC2605	B-5		D2613	C-1	③
			D2618	A-1	③
TRANSISTOR			D2619	D-1	③
		*	D2620	D-1	③
Q2101	B-1	②			
Q2102	B-1	②	CRYSTAL		
Q2103	A-3	②			
Q2105	A-3	②	X2101	B-1	
Q2606	C-1	②			
Q2607	C-1	②			
Q2609	A-1	②			
Q2610	A-1	②			
Q2611	D-5	②			
Q2612	D-5	②			
Q2613	C-3	②			
Q2801	B-5	②			
Q2802	A-5	②			
Q2804	A-5	②			
Q2805	B-5	②			
Q2807	B-5	②			

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

K [PROLOGIC DECODER, TONE CONTROL]

— K BOARD (Conductor Side) —



- **K BOARD SEMICONDUCTOR LOCATION (Conductor Side)**

IC		
IC2102	B-3	
IC2103	B-2	
IC2104	B-1	
IC2301	A-3	
IC2302	A-1	
IC2303	A-2	
IC2601	C-5	
IC2602	C-1	
IC2603	D-3	

TRANSISTOR		
		∗
Q2104	A-5	①
Q2608	A-5	①
Q2803	A-1	①
Q2806	B-1	①

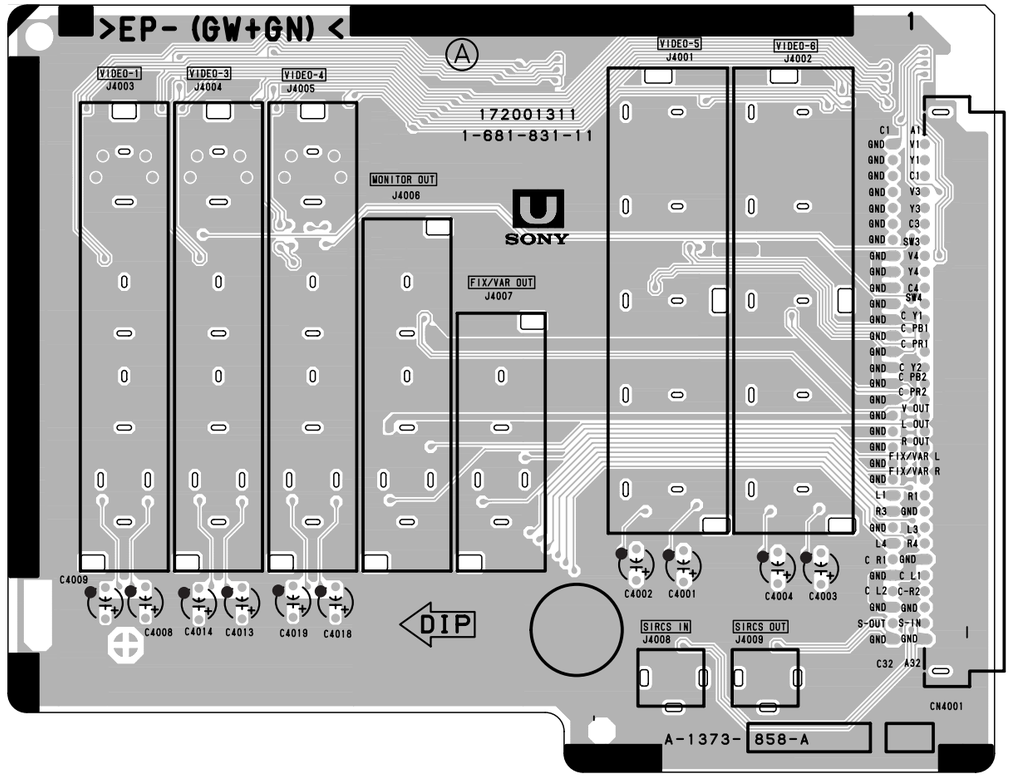
DIODE		
		∗
D2102	A-5	③
D2602	C-1	③
D2603	C-1	③
D2604	C-1	③
D2605	C-1	③
D2606	D-1	③
D2607	D-1	③
D2614	C-5	③
D2615	C-5	③
D2616	C-5	③
D2617	C-5	③
D2622	B-1	③
D2623	B-1	③
D2624	A-1	③
D2625	A-1	③
D2626	A-1	③
D2627	A-1	③
D2628	A-1	③
D2629	A-1	③
D2630	A-1	③
D2631	A-1	③

CRYSTAL		
X2101	B-4	

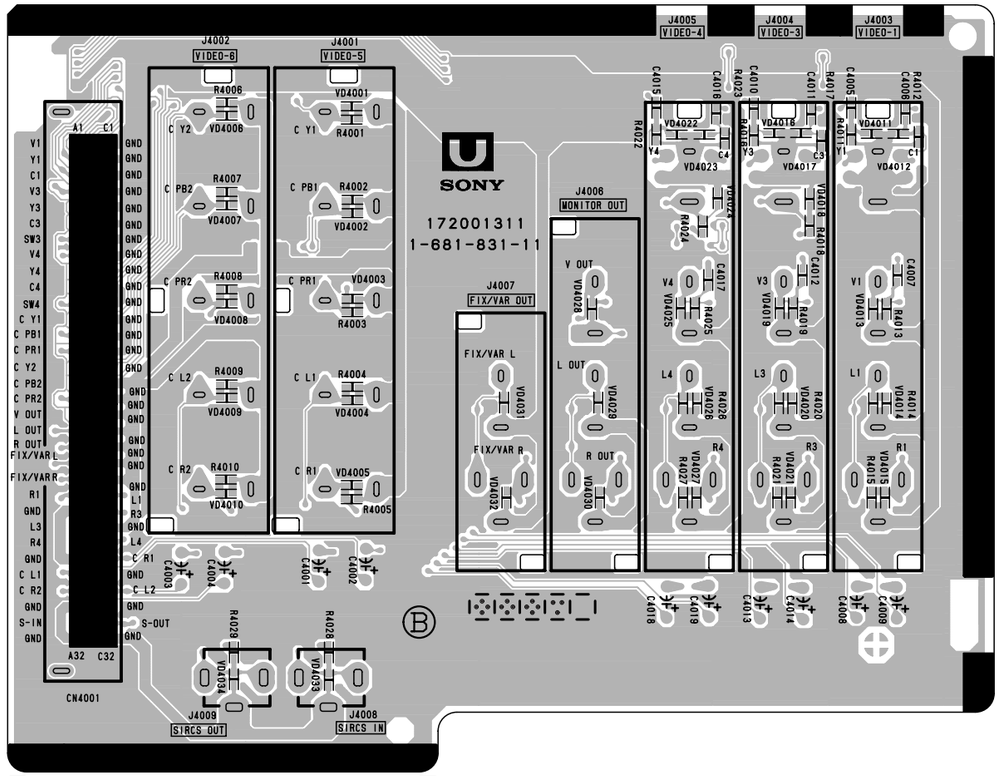
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

U [AV INPUT/OUTPUT]

— U BOARD (Component Side) —

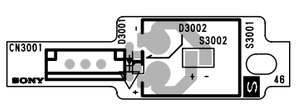


— U BOARD (Conductor Side) —

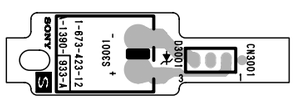


S [SENSOR]

— S BOARD (Component Side) —

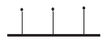
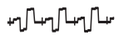


— S BOARD (Conductor Side) —

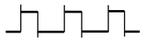


7-5. WAVEFORMS

• A (1/3) BOARD WAVEFORMS

① 1.3 Vp-p (V)	② 1.3 Vp-p (V)	③ 1.8 Vp-p (H)	④ 2.0 Vp-p (H)	⑤ 2.0 Vp-p (H)	⑥ 370 mVp-p (V)
⑦  4.9 Vp-p (V)	⑧ 3.9 Vp-p (H)	⑨ 120 mVp-p (2.69 MHz)	⑩ 4.9 Vp-p (H)	⑪  530 mVp-p (H)	⑫ 530 mVp-p (H)
⑬ 640 mVp-p (H)					

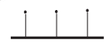
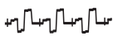
• AD (1/2) BOARD WAVEFORMS

① 5.0 Vp-p (540 kHz)	② 5.9 Vp-p (9.52 MHz)	③  5.0 Vp-p (33.7 kHz)	④ 4.9 Vp-p (V)	⑤ 800 mVp-p (16.0 MHz)	⑥ 2.6 Vp-p (12.0 MHz)

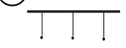
• AD (2/2) BOARD WAVEFORMS

⑦ 880 mVp-p (V)	⑧ 2.0 Vp-p (V)	⑨ 710 mVp-p (V)	⑩ 1.5 Vp-p (V)	⑪ 970 mVp-p (V)	⑫ 1.6 Vp-p (V)

• B (1/7) BOARD WAVEFORMS

① 1.3 Vp-p (H)	② 1.1 Vp-p (H)	③ 1.1 Vp-p (H)	④ 3.2 Vp-p (H)	⑤  3.2 Vp-p (V)	⑥ 570 mVp-p (H)
⑦ 500 mVp-p (H)	⑧  500 mVp-p (H)	⑨ 4.8 Vp-p (H)	⑩ 4.8 Vp-p (V)	⑪ 2.8 Vp-p (10.0 MHz)	⑫ 1.2 Vp-p (25.0 MHz)

• B (2/7) BOARD WAVEFORMS

⑬ 3.2 Vp-p (H)	⑭  3.2 Vp-p (V)	⑮ 1.2 Vp-p (H)	⑯ 3.5 Vp-p (10.0 MHz)

• B (3/7) BOARD WAVEFORM

⑰ 3.5 Vp-p (10.0 MHz)

• B (4/7) BOARD WAVEFORMS

⑱ 89 mVp-p (4.0 MHz)	⑲ 3.4 Vp-p (V)	⑳ 3.7 Vp-p (H)	㉑ 1.3 Vp-p (H)	㉒ 1.1 Vp-p (H)	㉓ 1.1 Vp-p (H)
㉔ 800 mVp-p (H)	㉕ 560 mVp-p (H)	㉖ 1.8 Vp-p (H)	㉗ 570 mVp-p (3.58 MHz)		

• B (5/7) BOARD WAVEFORM

㉘ 570 mVp-p (3.58 MHz)

• B (6/7) BOARD WAVEFORMS

㉙ 570 mVp-p (3.58 MHz)	㉚ 800 mVp-p (H)	㉛ 580 mVp-p (H)	㉜ 360 mVp-p (H)	㉝ 4.8 Vp-p (H)

• B (7/7) BOARD WAVEFORMS

㉞ 860 mVp-p (H)	㉟ 1.8 Vp-p (H)	㊱ 1.8 Vp-p (H)	㊲ 840 mVp-p (H)

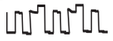
• **CB BOARD WAVEFORMS**

①	②
1.9 Vp-p (H)	94.0 Vp-p (H)

• **CG BOARD WAVEFORMS**

①	②
2.0 Vp-p (H)	101.5 Vp-p (H)

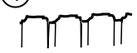
• **CR BOARD WAVEFORMS**

①	②
	
2.0 Vp-p (H)	84.5 Vp-p (H)

• **D (1/3) BOARD WAVEFORMS**

①	②	③
500 mVp-p (V)	53.2 Vp-p (V)	500 mVp-p (V)

• **D (2/3) BOARD WAVEFORMS**

④	⑤
	
14.7 Vp-p (H)	940 Vp-p (H)

• **D (3/3) BOARD WAVEFORMS**

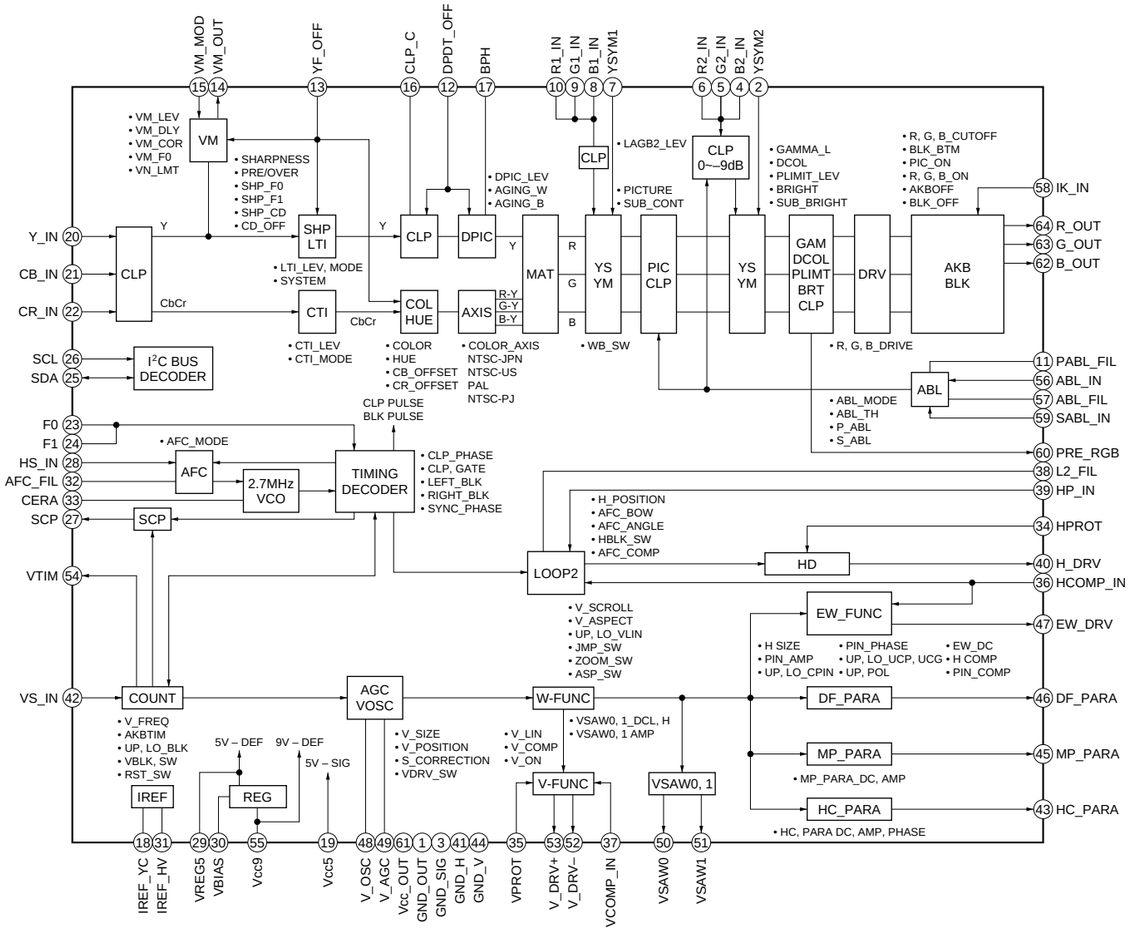
⑥	⑦	⑧	⑨	⑩
6.5 Vp-p (V)	3.5 Vp-p (H)	104 Vp-p (H)	7.6 Vp-p (H)	1030 Vp-p (H)

• **K BOARD WAVEFORM**

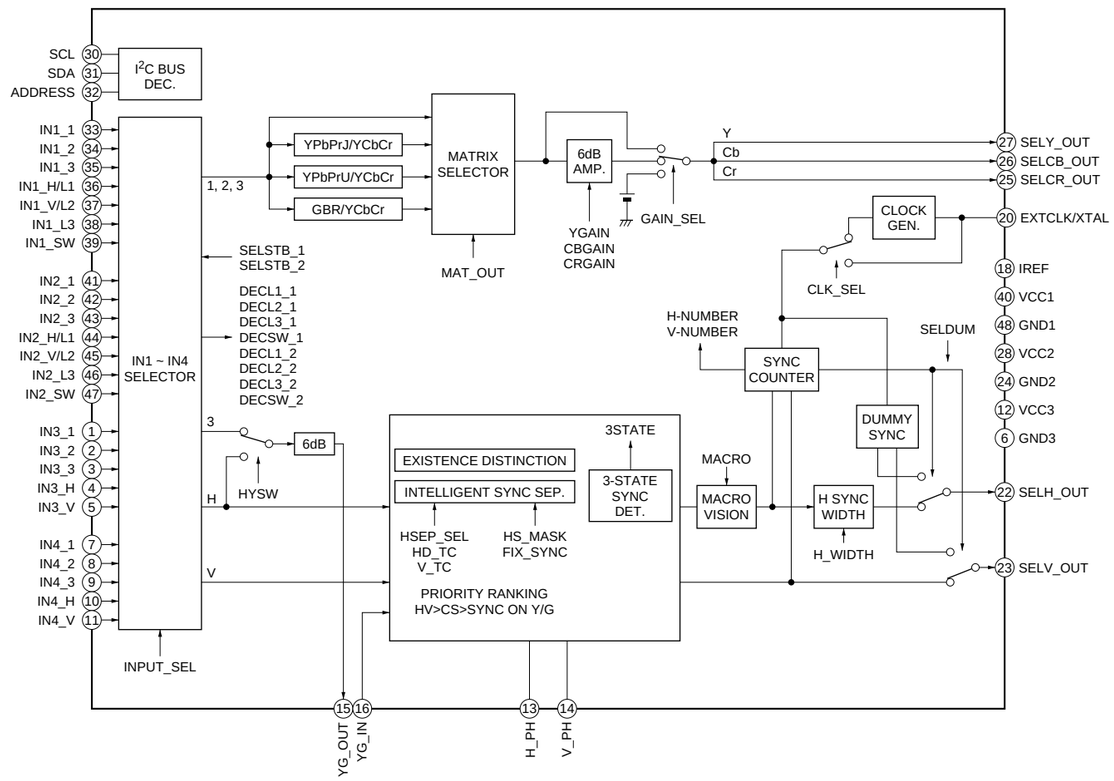
①
4.4 Vp-p (4.0 MHz)

7-6. IC BOLCK DIAGRAMS

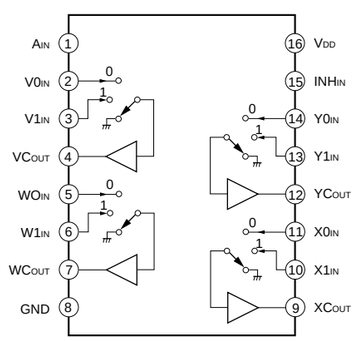
- **A (1/3) BOARD IC3006**
  CXA2150AQ



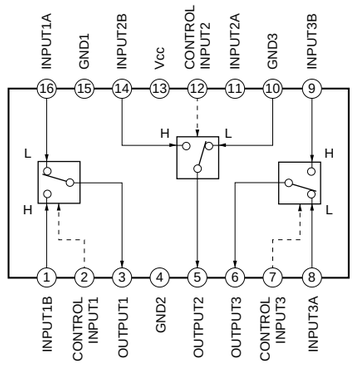
- **B (4/7) BOARD IC200**
  CXA2151Q



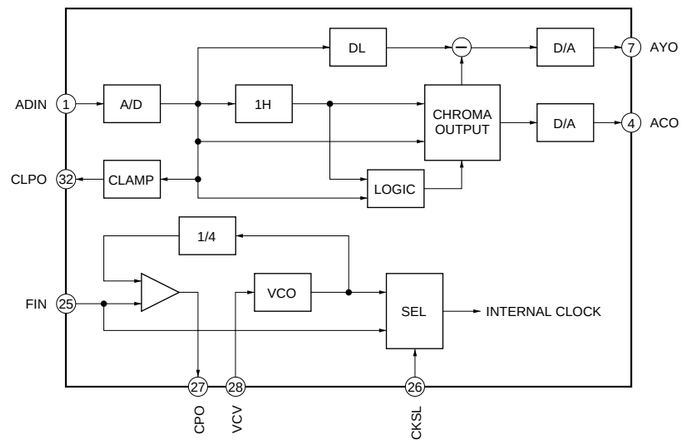
- **B (1/7) BOARD IC006**
  TC74HCT157AF
- **B (4/7) BOARD IC203, IC206**
  TC74LVX157FT



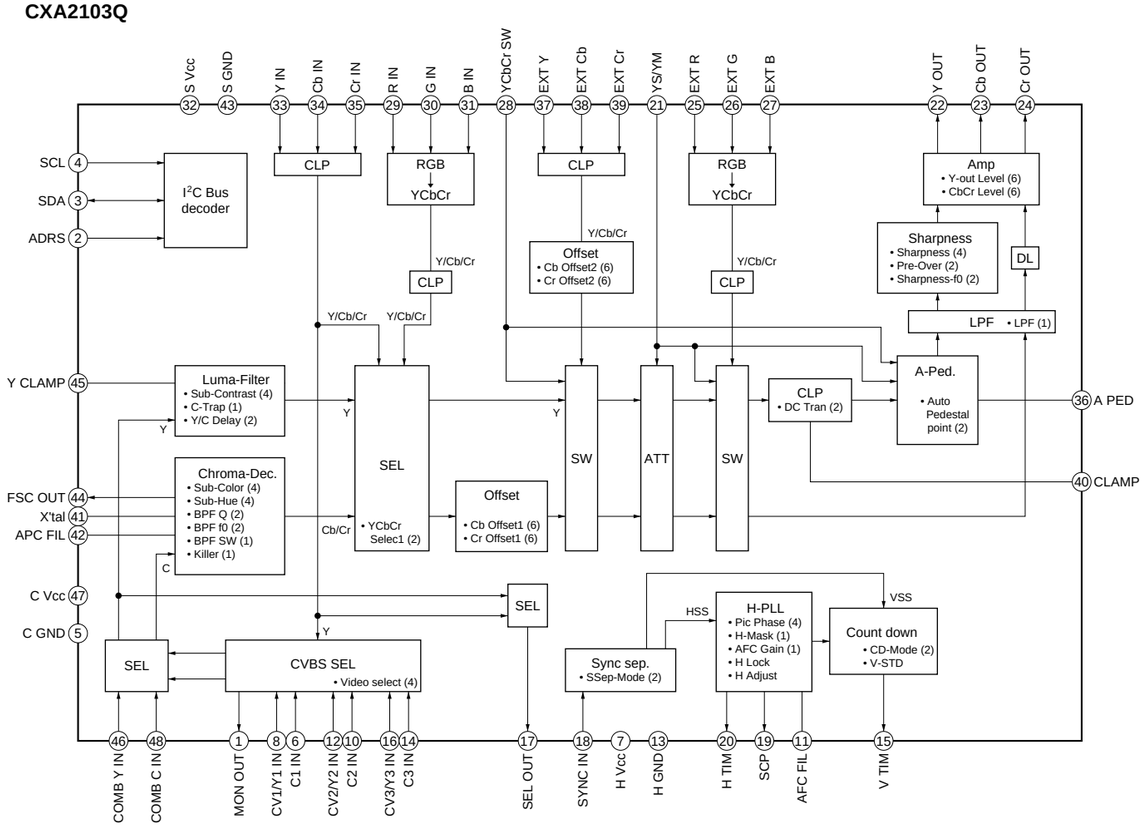
- **B (1/7) BOARD IC002**
- **B (4/7) BOARD IC201, IC205**
  M52055FP



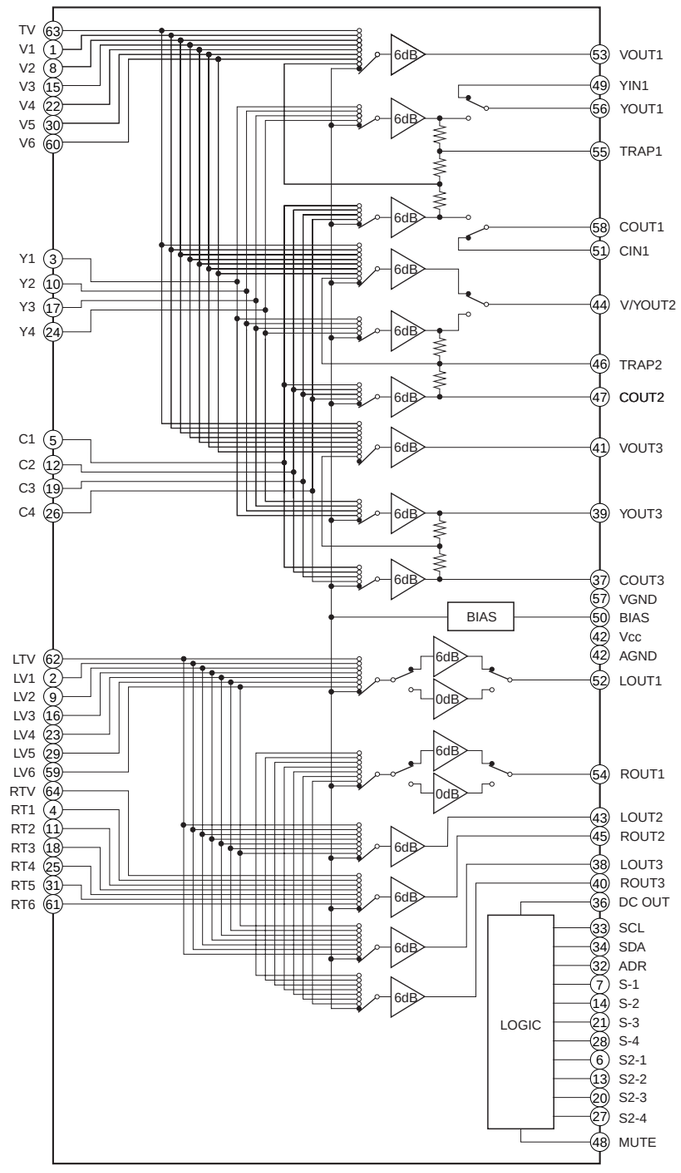
- **B (5/7) BOARD IC204**
  CXD2073Q



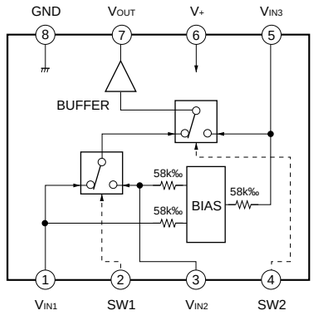
- **B (4/7) BOARD IC207**
- **B (5/7) BOARD IC202**
  CXA2103Q



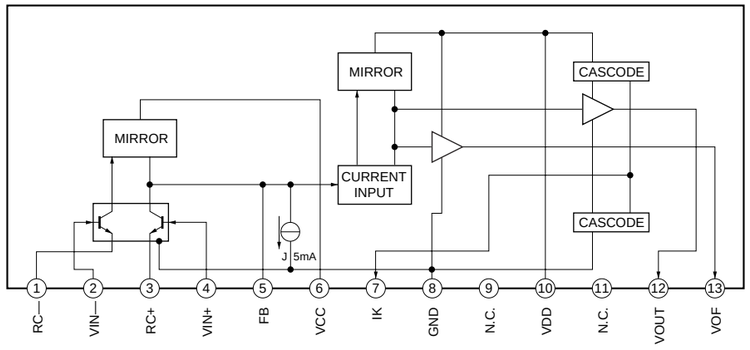
- **B (7/7) BOARD IC401**
  CXA2069Q



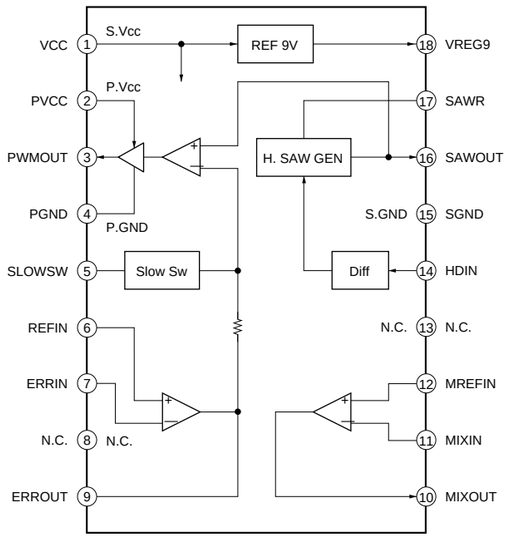
- **B (7/7) BOARD IC402, IC403**
  NJM2521M



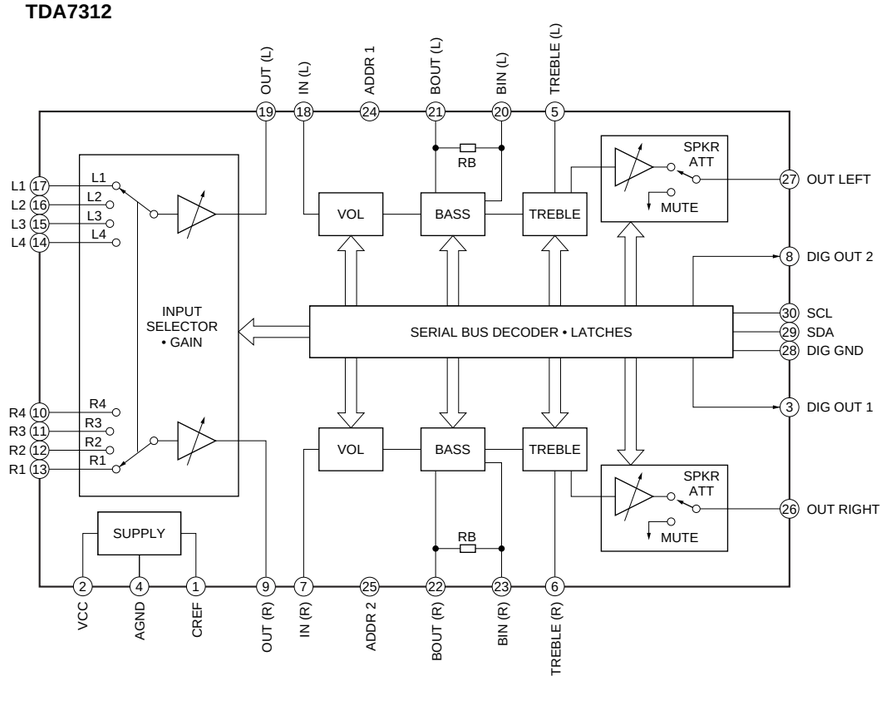
- **CB BOARD IC3901**
- **CG BOARD IC3801**
- **CR BOARD IC3701**
  TDA6120Q



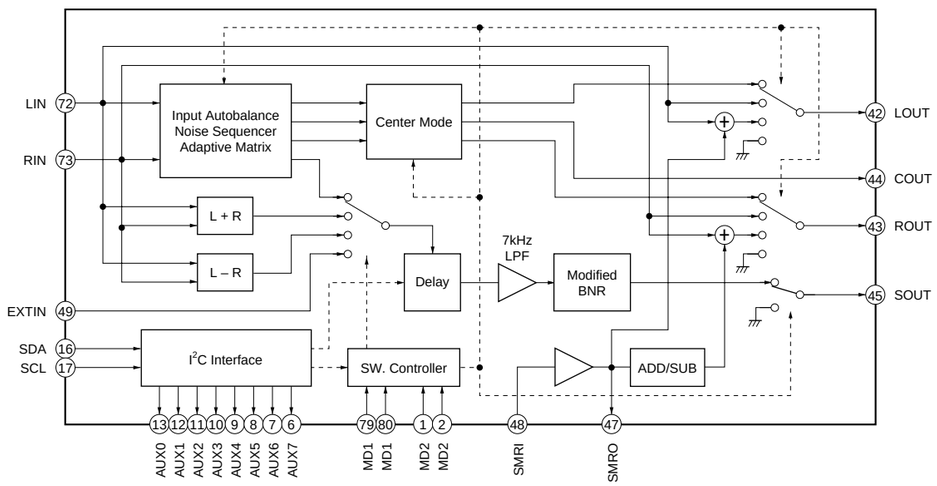
- **D (2/3) BOARD IC8008**
  BA9759F-E2



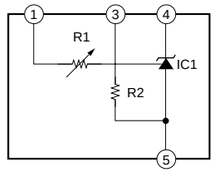
- **K (1/3) BOARD IC2302, IC2303**
- **K (2/3) BOARD IC2301**
  TDA7312



- **K (1/3) BOARD IC2101**
  NJW1106

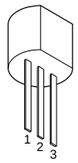


- **G (2/2) BOARD IC6101**
  DM-58

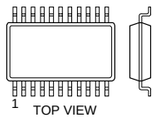


7-7. SEMICONDUCTORS

AN77L12-TA
NJM78L12A-T3
NJM79L05A
NJM79L05A-T3

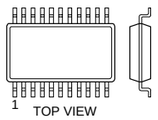


BA9759F-E2



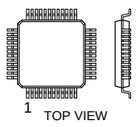
18pin SOP

CD0031AM



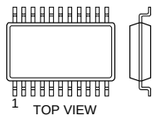
48pin SOP

CM0017AF



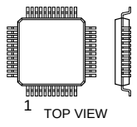
100pin QFP

CXA1726AM
CXA1726AM-T6



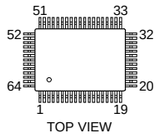
30pin SOP

CXA2103Q
CXA2151Q

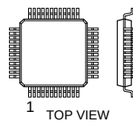


48pin QFP

CXA2069Q
CXA2150AQ



CXD2073Q-T4



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M306V2ME-154FP
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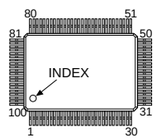
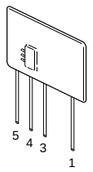


DM-58



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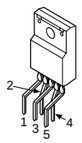
LA6500P-FA



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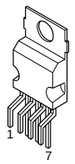

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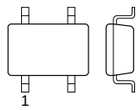

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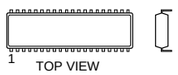

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MC7812CT
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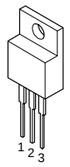
TA7805S
TA7812S



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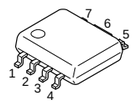

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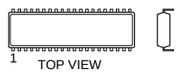

40pin DIP

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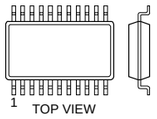
M24C32-WMN6T(A)
NJM2068V-TE2
NJM2521M(TE2)
NJM2903M
NJM2903M-TE2
NJM2904M
NJM2904M(TE2)
NJM4558M-T2
NJM4558M-TE2
NJM4558V-TE2
µPC4558G2



8pin SOP

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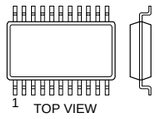
TC74HCT157AF(EL)
TC74LVX157FT(EL)



16pin SOP

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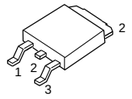

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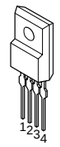

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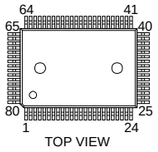

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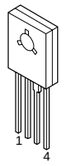
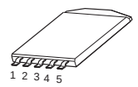


PST9143NL



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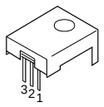

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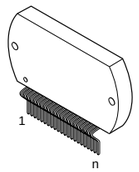

n=18pin

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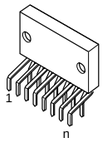

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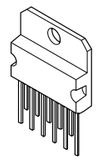

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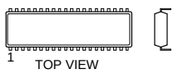

30pin DIP

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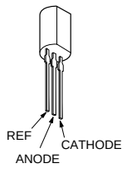

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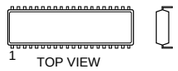

8pin DIP

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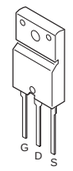

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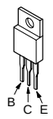
2SC5511



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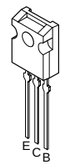
2SA1037AK-T146-R
2SA1226
2SA1226-T1E3E4
2SB709A-QRS-TX
2SC1623-L5L6
2SC2412K-T-146-QR
2SD601A-Q
2SD601A-QRS-TX

2SA1358-Y
2SC3421-Y



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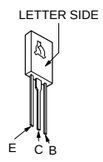

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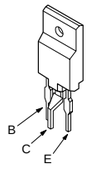

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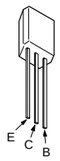
2SD2144S-V



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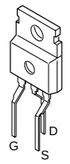

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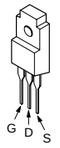

2SK3018-T106

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DAN202K-T-146

DAP202K
DAP202K-T-146

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MA111-TX
UDZ-TE-17- 8.2B
UDZ-TE-17-7.5B
UDZS-TE17-12B
UDZS-TE17-22B
UDZS-TE17-33B
UDZSTE-1710B
UDZSTE-1720B
UDZSTE-175.1B
UDZSTE-175.6B
UDZSTE-177.5B
UDZSTE-178.2B
1SS355TE-17

D1NL20U
D1NL20U-TA2
D2L20U
D2L20U-TA
EL1Z
ERA22-08
ERA22-08TP3
GP08D
GP08DPKG23
MTZJ-T-77-18B
MTZJ-T-77-22B
MTZJ-T-77-5.6B
RGP02-17EL-6433
RGP02-17PKG23
RGP10GPKG23
S2L40F
10ERA60-TP
1SS83
1SS83TD

D10SC6M

D10SC6MR

D2L20U-F
ERC04-06SE

D2SB60A-F04
D4SBS4-F
D6SB60LF

D25SC6MF04

D25SC6MRF04

ERD07-15L

FCQ30A04

FMQ-G5FMS
PG124S15

MTZJ-T-77-15B
MTZJ-T-77-20B
MTZJ-T-77-5.1B
RD15ES-B2
RD18ES-B2
RD20ES-B2
RD5.1ESB2
RD5.6ESB2
1SS133T-77

PC123F2
PC123FY2

SLR-325VCT31

SPR-325MVW

SECTION 8
EXPLODED VIEWS

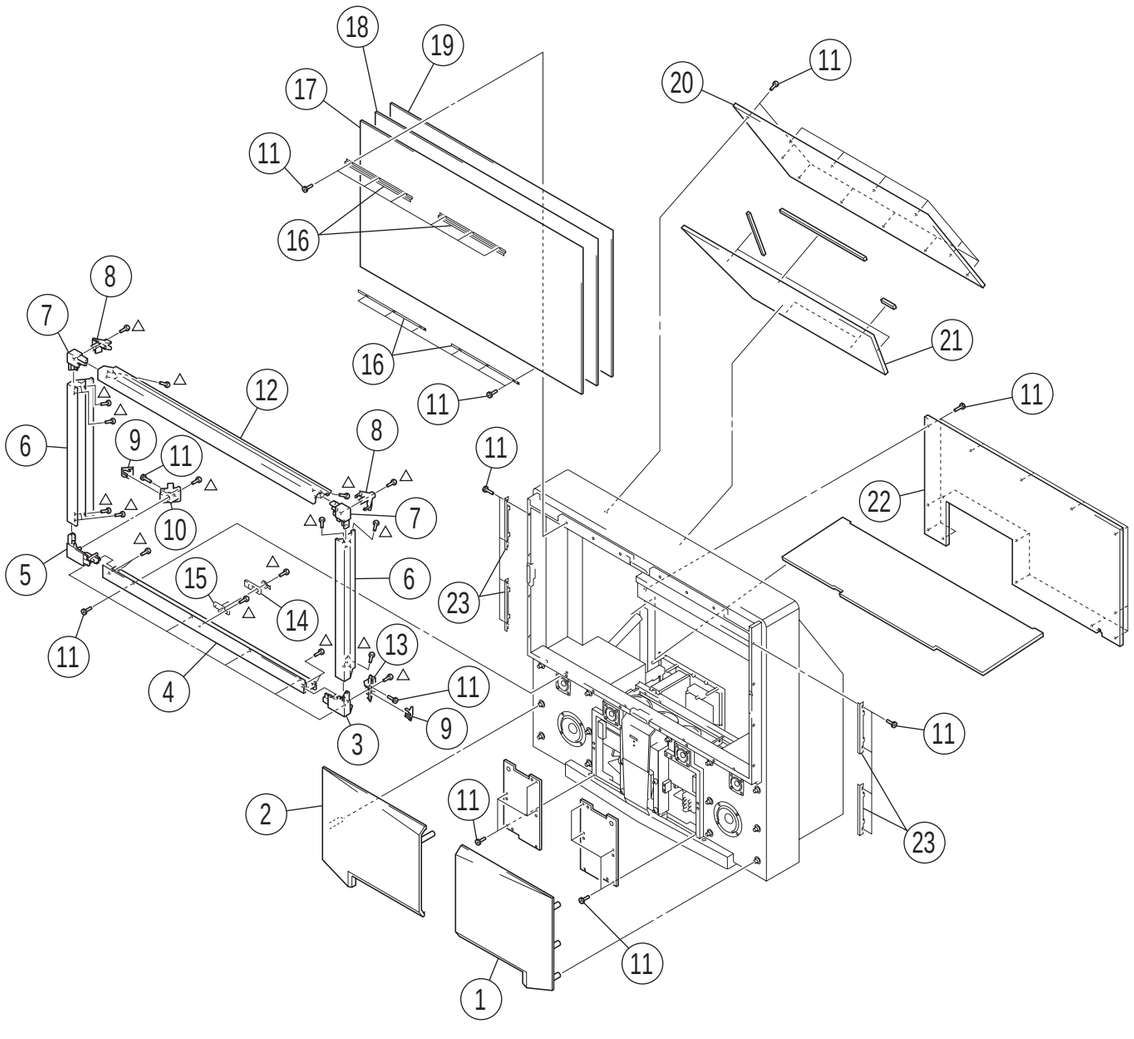
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-1. SCREEN AND SCREEN FRAME BLOCK

△ : 7-685-661-71 +BVTP 4X12



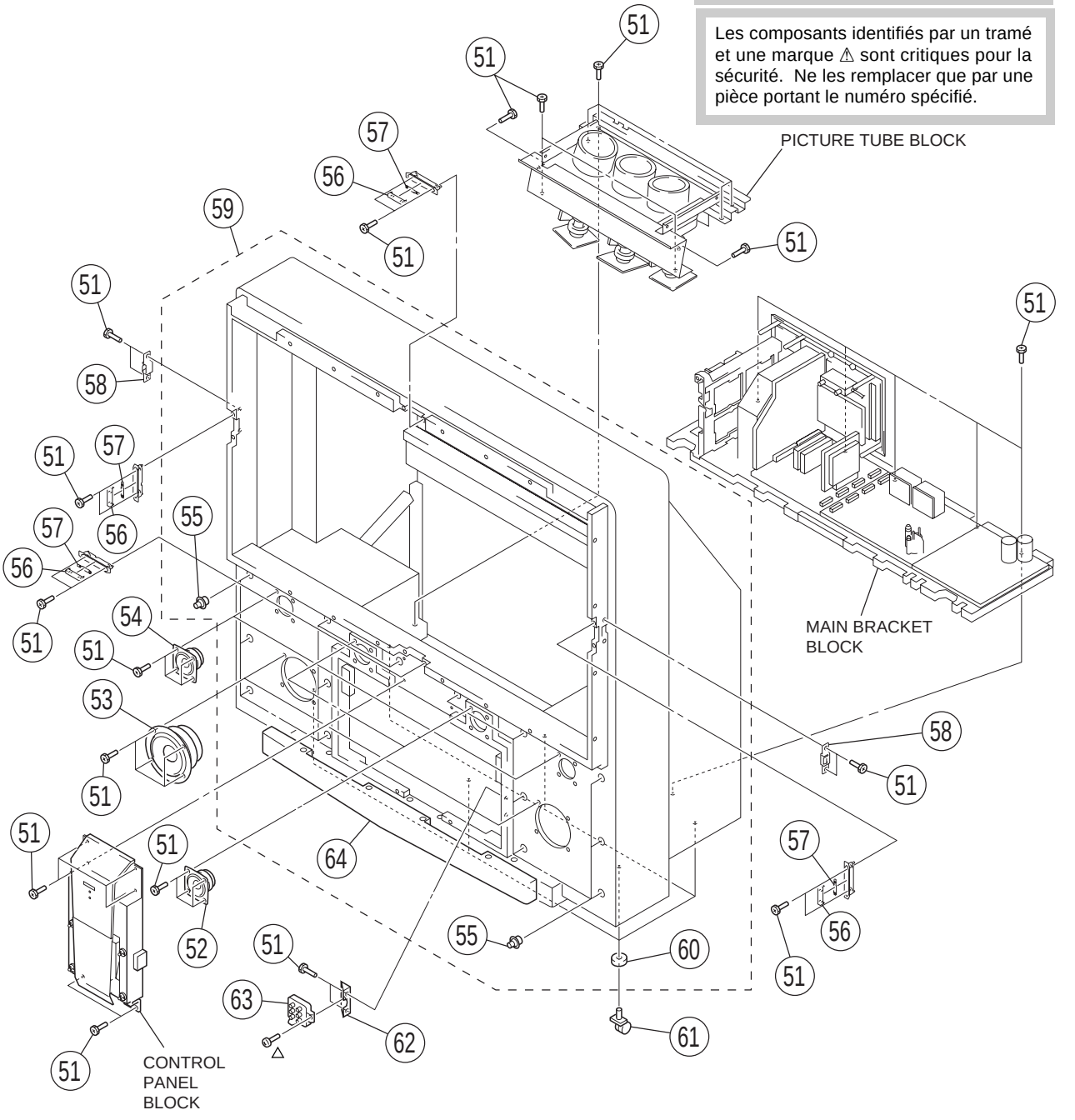
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4039-155-1	GRILLE (R) ASSY, SPEAKER (KDP-65)	
1	X-4039-157-1	GRILLE (R) ASSY, SPEAKER (KDP-57)	
2	X-4039-154-1	GRILLE (L) ASSY, SPEAKER (KDP-65)	
2	X-4039-158-1	GRILLE (L) ASSY, SPEAKER (KDP-57)	
3	4-076-882-11	BLOCK (R), CORNER	
4	4-076-880-21	FRAME LW, SCREEN (KDP-65)	
4	4-076-880-31	FRAME LW, SCREEN (KDP-57)	
5	4-076-883-11	BLOCK (L), CORNER	
6	4-076-879-21	FRAME SD, SCREEN (KDP-65)	
6	4-076-879-31	FRAME SD, SCREEN (KDP-57)	
7	4-076-881-11	BLOCK (U), CORNER	
8	4-076-884-01	COVER (U), CORNER BLOCK	
9	*4-076-903-01	COVER, SCREW	
10	4-079-341-01	COVER (L), CORNER BLOCK	
11	4-081-063-01	SCREW, DOME WASHER HEX TAP 4X20	
12	4-076-878-21	FRAME U, SCREEN (KDP-65)	
12	4-076-878-31	FRAME U, SCREEN (KDP-57)	
13	4-079-342-01	COVER (R), CORNER BLOCK	
14	*A-1372-983-A	HC BOARD, COMPLETE	
15	*4-076-887-02	BRACKET, HC	
16	*4-080-429-01	HOLDER (L), SCREEN	
17	4-083-713-11	SCREEN (57W), CONTRAST (KDP-57)	
17	4-083-714-11	SCREEN (65W), CONTRAST (KDP-65)	
18	4-076-305-11	PLATE (65WL), DIFFUSION (KDP-65)	
18	4-076-308-11	PLATE (57WL), DIFFUSION (KDP-57)	
19	4-076-309-11	PLATE (57WF), DIFFUSION (KDP-57)	
19	4-083-715-11	PLATE (65WFV90), DIFFUSION (KDP-65)	
20	*4-080-436-01	BOARD (57), MIRROR (KDP-57)	
20	*4-080-442-01	BOARD (65), MIRROR (KDP-65)	
21	4-079-954-01	MIRROR (57) (KDP-57)	
21	4-079-955-01	MIRROR (65) (KDP-65)	
22	*4-083-979-01	BOARD (65), REAR (KDP-65)	
22	*4-083-984-01	BOARD 57, REAR (KDP-57)	
23	*4-080-430-01	HOLDER (S), SCREEN	

8-2. CABINET BLOCK

△ : 7-685-661-71 +BVTP 4X12

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

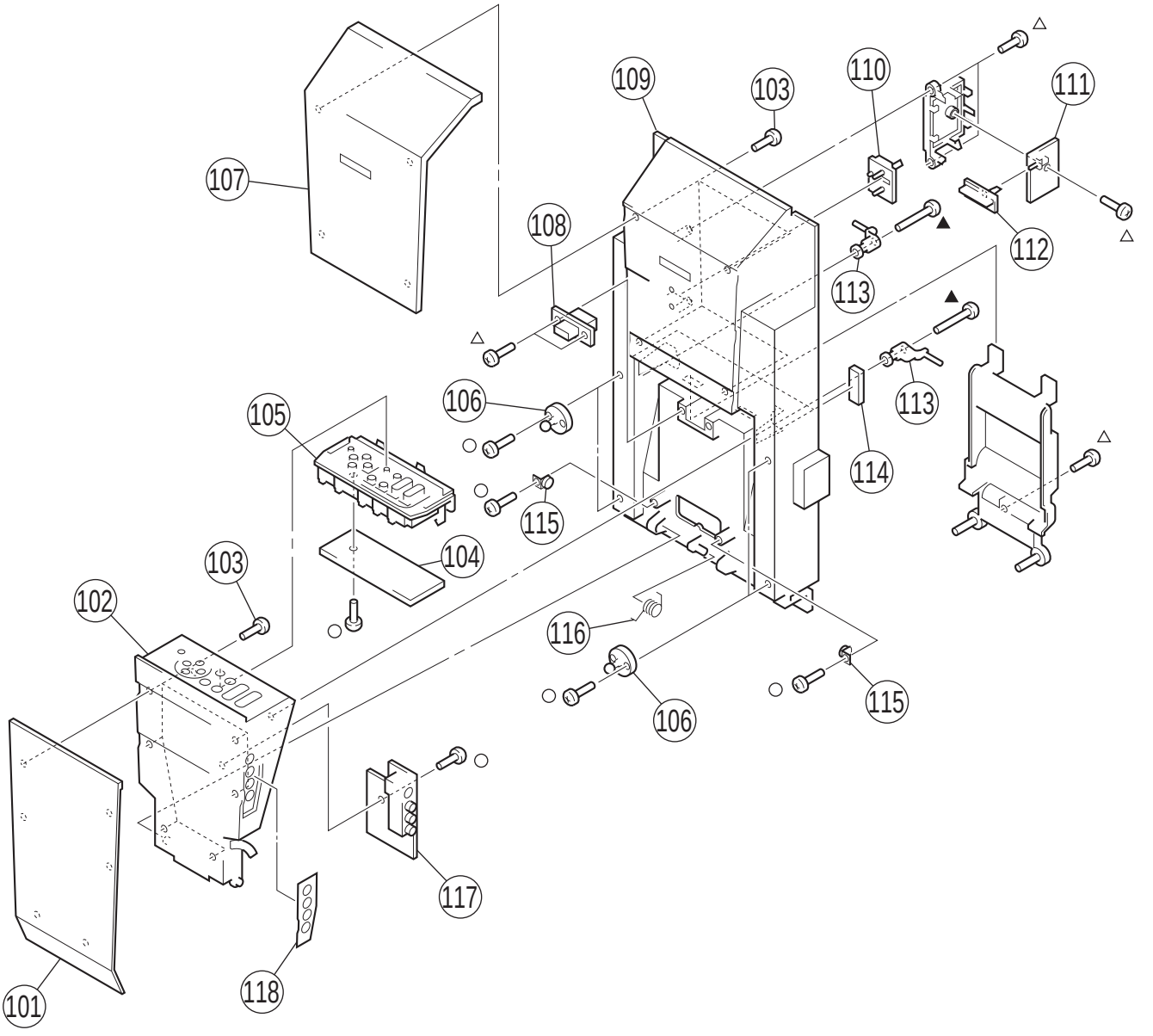
Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-081-063-01	SCREW, DOME WASHER HEX TAP 4X20	
52	1-529-830-12	SPEAKER (10CM)	
53	1-529-831-11	SPEAKER (16CM)	
54	1-529-832-11	SPEAKER (10CM)	
55	4-063-421-02	LATCH (K)	
56	* 4-069-680-01	BRACKET (B), SENSOR	
57	* A-1391-148-A	S BOARD, COMPLETE	
58	4-076-877-01	CATCHER, FRAME	
59	* X-4039-156-1	CABINET (65) ASSY (KDP-65)	55, 60, 64
59	* X-4039-159-1	CABINET (57) ASSY (KDP-57)	55, 60, 64
60	4-030-850-03	SOCKET, CASTER	
61	4-040-508-01	CASTER	
62	* 4-063-403-01	BRACKET, FOCUS PACK (KDP-65)	
63	⚠ 1-223-925-31	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
64	* 4-080-433-01	SKIRT (57), FRONT (KDP-57)	
64	* 4-080-439-01	SKIRT (65), FRONT (KDP-65)	

8-3. CONTROL PANEL BLOCK

△ : 7-685-661-71 +BVTP 4X12
○ : 7-685-648-71 +BVTP 3X12
▲ : 7-685-152-19 +BV 3X25



REF.NO.	PART NO.	DESCRIPTION	REMARK
101	4-077-631-11	PANEL, DOOR	
102	4-076-896-11	BRACKET, DOOR	
103	3-701-809-21	SCREW, TERMINAL (M3X6)	
104	* A-1372-984-A	HA BOARD, COMPLETE	
105	4-081-874-01	BUTTON, MULTI	
106	4-054-709-01	STRIKE	
107	4-077-629-11	PANEL, CONTROL (KDP-65)	
107	4-077-633-11	PANEL, CONTROL (KDP-57)	
108	4-076-904-01	PUSH CATCH	
109	* 4-076-902-01	BRACKET, CONTROL (65) (KDP-65)	
109	* 4-076-905-01	BRACKET, CONTROL (57) (KDP-57)	
110	* 4-076-899-01	GUIDE, LED	
111	* A-1372-986-A	HD BOARD, COMPLETE	
112	4-076-900-01	BUTTON, POWER	
113	4-077-630-01	STOPPER (U), DOOR	
114	* 4-080-583-01	SPACER, FOAM	
115	4-919-393-42	DAMPER	
116	* 4-077-628-01	SPRING, DOOR	
117	* A-1372-985-A	HB BOARD, COMPLETE	
118	4-077-632-01	LABEL, FRONT TERMINAL	

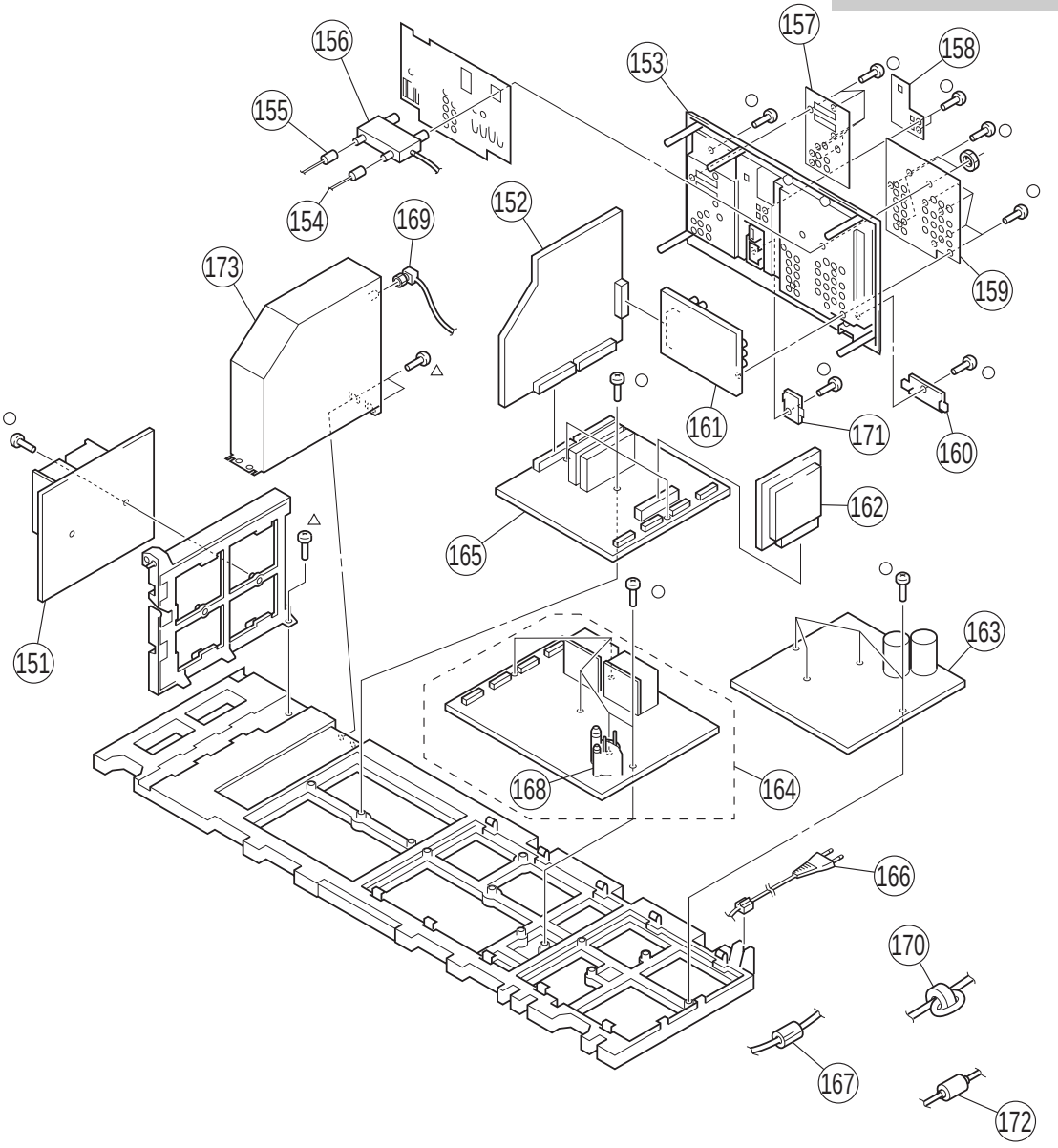
The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-4. MAIN BRACKET BLOCK

△ : 7-685-661-71 +BVTP 4X12

○ : 7-685-648-71 +BVTP 3X12



REF.NO.	PART NO.	DESCRIPTION	REMARK
151	* A-1380-653-A	K BOARD, COMPLETE	
152	* A-1136-205-A	B BOARD, COMPLETE	
153	4-081-876-01	TERMINAL BOARD	
154	* 1-556-945-21	CABLE, P-P	
155	* 1-557-056-31	CABLE, P-P	
156	1-786-183-11	SWITCH, ANTENNA	
157	4-081-877-01	LABEL, AUDIO TERMINAL	
158	4-081-878-01	LABEL, DIGITAL TERMINAL	
159	4-081-882-01	LABEL, VIDEO TERMINAL	
160	4-069-675-01	CAP, TERMINAL BOARD	
161	* A-1373-860-A	U BOARD, COMPLETE	
162	* A-1299-523-A	AD BOARD, COMPLETE	
163	* A-1316-574-A	G BOARD, COMPLETE	
164	* A-1348-120-A	D BOARD, COMPLETE	168
165	* A-1272-382-A	A BOARD, COMPLETE	
166	⚠ 1-783-595-11	CORD, NOISE FILTER WITH POWER	
167	1-543-653-21	CORE ASSY, BEAD (DIVISION TYPE)	
168	⚠ 1-453-285-31	TRANSFORMER ASSY, FLYBACK	(NX-4006//X4P)
169	1-757-970-11	CORD WITH CONNECTOR (F-TYPE)	
170	1-543-982-11	CORE, FERRITE	
171	* 4-081-602-01	COVER, U BRACKET	
172	1-500-603-11	CLAMP, FERRITE	
173	T-9986-079-1	Q-BOX ASSEMBLY (KDP-57)	
173	T-9986-079-2	Q-BOX ASSEMBLY (KDP-65)	

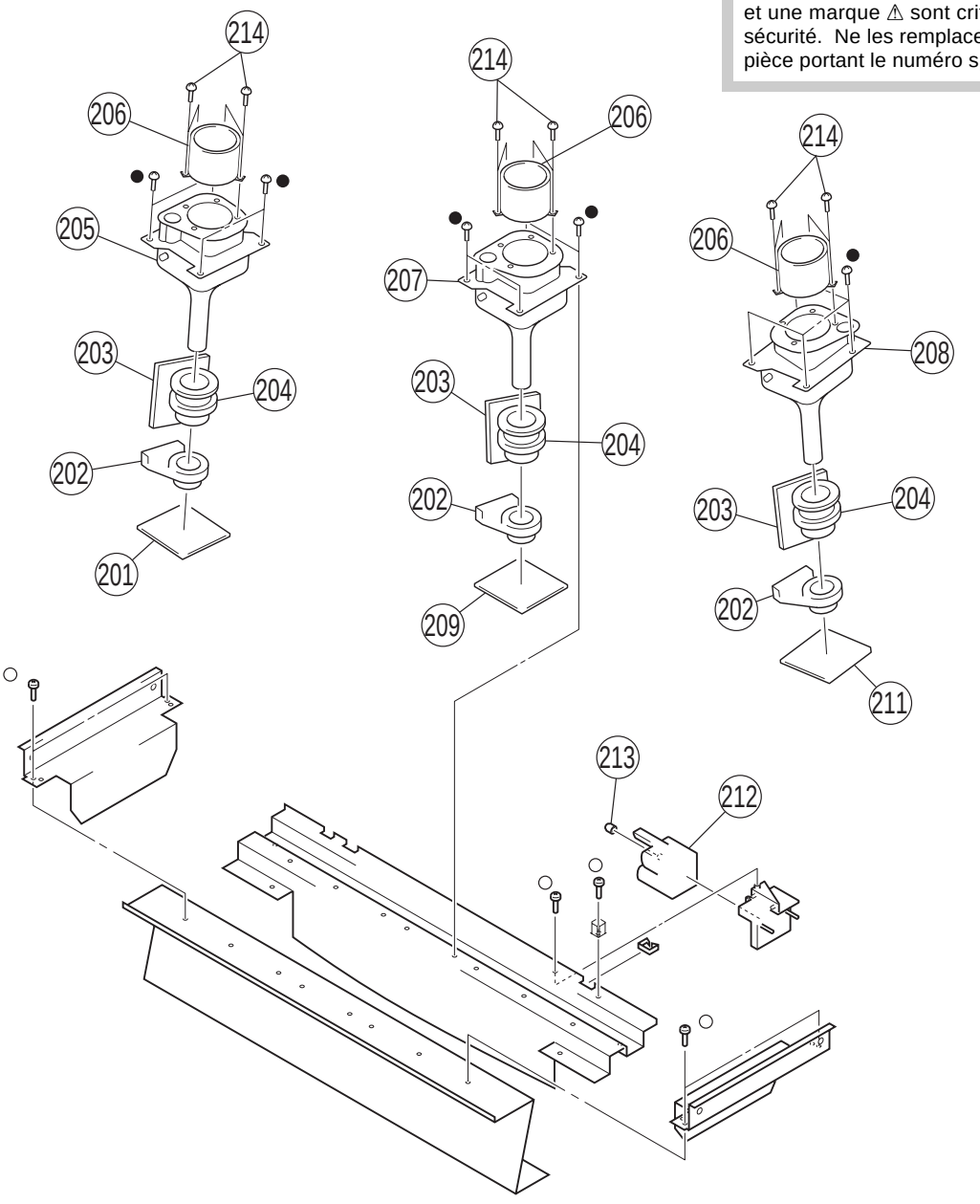
8-5. PICTURE TUBE BLOCK

○ : 7-685-648-71 +BVTP 3X12

● : 7-685-661-71 +BVTP 4X12

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
201	* A-1332-186-A	CR BOARD, COMPLETE	
202	⚠ 1-451-535-11	COIL ASSY, VM	
203	* A-1342-612-A	V BOARD, COMPLETE	
204	1-451-537-11	DEFLECTION YOKE	
205	⚠ 8-733-625-05	PICTURE TUBE 07MVC41 (R)-L	(KDP-57)
205	⚠ 8-733-628-05	PICTURE TUBE 07MVC5 (R)-L (KDP-65)	
206	4-076-500-01	LENS (KDP-65)	
206	4-083-750-01	LENS (DELTA 260) (KDP-57)	
207	⚠ 8-733-620-05	PICTURE TUBE 07MVC21 (G)-L	(KDP-57)
207	⚠ 8-733-626-05	PICTURE TUBE 07MVC5 (G)-L (KDP-65)	
208	⚠ 8-733-624-05	PICTURE TUBE 07MVC41 (B)-L	(KDP-57)
208	⚠ 8-733-627-05	PICTURE TUBE 07MVC5 (B)-L (KDP-65)	
209	* A-1332-187-A	CG BOARD, COMPLETE	
211	* A-1332-188-A	CB BOARD, COMPLETE	
212	⚠ 8-598-955-31	BLOCK ASSY, HIGH-VOLTAGE	(HVB-1031)
213	4-373-137-02	CAP (Z), RUBBER	
214	4-052-894-01	SCREW, DOME WASHER HEX	TAP 4X20

SECTION 9
ELECTRICAL PARTS LIST

B

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  PF : μμF
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1136-205-A	B BOARD, COMPLETE			
		**********			
	< CAPACITOR >				
C001	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C002	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C003	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C004	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C005	1-115-156-11	CERAMIC CHIP	1μF		10V
C006	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C007	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
C008	1-126-933-11	ELECT	100μF	20%	16V
C009	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C010	1-126-933-11	ELECT	100μF	20%	16V
C011	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C014	1-107-715-11	ELECT	22μF	20%	16V
C015	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C018	1-107-715-11	ELECT	22μF	20%	16V
C019	1-107-715-11	ELECT	22μF	20%	16V
C020	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C022	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C024	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C025	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C028	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C029	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C030	1-126-933-11	ELECT	100μF	20%	16V
C031	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C034	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C035	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C036	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C037	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C100	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C101	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C102	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C103	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C104	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C105	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C106	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C107	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C109	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C110	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C111	1-126-933-11	ELECT	100μF	20%	16V
C112	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C113	1-126-933-11	ELECT	100μF	20%	16V
C114	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C115	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C116	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C117	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C118	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C119	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C120	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C121	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C122	1-126-933-11	ELECT	100μF	20%	16V
C123	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C124	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C126	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C127	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C128	1-126-933-11	ELECT	100μF	20%	16V
C129	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C130	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C131	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C200	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C201	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C202	1-126-933-11	ELECT	100μF	20%	16V
C203	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C204	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C205	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C206	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C208	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C209	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C210	1-126-933-11	ELECT	100μF	20%	16V
C211	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C212	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C213	1-126-963-11	ELECT	4.7μF	20%	50V
C214	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C215	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C216	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C217	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C218	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C219	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C220	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C221	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C222	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C223	1-164-156-11	CERAMIC CHIP	0.1μF		25V

B

REF.NO.	PART NO.	DESCRIPTION			REMARK
C224	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C225	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C226	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C227	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C228	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C229	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C230	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C231	1-126-933-11	ELECT	100µF	20%	16V
C232	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C234	1-126-933-11	ELECT	100µF	20%	16V
C235	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C236	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C237	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C238	1-126-933-11	ELECT	100µF	20%	16V
C239	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C241	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C242	1-126-933-11	ELECT	100µF	20%	16V
C243	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C244	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C245	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C247	1-126-933-11	ELECT	100µF	20%	16V
C248	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C249	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C250	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C251	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C252	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C253	1-126-933-11	ELECT	100µF	20%	16V
C254	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C255	1-126-933-11	ELECT	100µF	20%	16V
C256	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C258	1-126-933-11	ELECT	100µF	20%	16V
C259	1-126-963-11	ELECT	4.7µF	20%	50V
C260	1-126-933-11	ELECT	100µF	20%	16V
C261	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C262	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C263	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C264	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C265	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C266	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C267	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C268	1-126-933-11	ELECT	100µF	20%	16V
C271	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C272	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C274	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C275	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C276	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C277	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C278	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C280	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C281	1-126-933-11	ELECT	100µF	20%	16V
C282	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C284	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C285	1-126-933-11	ELECT	100µF	20%	16V
C286	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C287	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C288	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C290	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C291	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C292	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C293	1-126-933-11	ELECT	100µF	20%	16V
C294	1-126-933-11	ELECT	100µF	20%	16V
C295	1-126-933-11	ELECT	100µF	20%	16V
C296	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C297	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C298	1-126-933-11	ELECT	100µF	20%	16V
C299	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C300	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C301	1-126-964-11	ELECT	10µF	20%	50V
C302	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C303	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C304	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C305	1-126-933-11	ELECT	100µF	20%	16V
C306	1-126-933-11	ELECT	100µF	20%	16V
C307	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C309	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C310	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C311	1-126-963-11	ELECT	4.7µF	20%	50V
C312	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C313	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C314	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C315	1-126-933-11	ELECT	100µF	20%	16V
C317	1-126-933-11	ELECT	100µF	20%	16V
C319	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C320	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C321	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C322	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C323	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C324	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C326	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C327	1-126-933-11	ELECT	100µF	20%	16V
C329	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C330	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C331	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C333	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C334	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C336	1-126-963-11	ELECT	4.7µF	20%	50V
C337	1-126-933-11	ELECT	100µF	20%	16V
C338	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C339	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C340	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C341	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C342	1-126-933-11	ELECT	100µF	20%	16V
C346	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C347	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C348	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C349	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C350	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C351	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C352	1-126-933-11	ELECT	100µF	20%	16V
C353	1-126-933-11	ELECT	100µF	20%	16V
C354	1-162-923-11	CERAMIC CHIP	47pF	5%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C355	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C400	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C401	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C402	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C403	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C404	1-126-933-11	ELECT	100µF	20%	16V
C405	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C406	1-126-933-11	ELECT	100µF	20%	16V
C407	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C408	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C409	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C410	1-126-933-11	ELECT	100µF	20%	16V
C411	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C412	1-126-933-11	ELECT	100µF	20%	16V
C413	1-126-964-11	ELECT	10µF	20%	50V
C414	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C415	1-126-935-11	ELECT	470µF	20%	16V
C416	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C417	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C418	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C419	1-126-964-11	ELECT	10µF	20%	50V
C420	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C421	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C422	1-126-964-11	ELECT	10µF	20%	50V
C423	1-126-964-11	ELECT	10µF	20%	50V
C500	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C501	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C502	1-126-933-11	ELECT	100µF	20%	16V
C503	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C505	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C506	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C507	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C508	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C509	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C510	1-126-933-11	ELECT	100µF	20%	16V
C511	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C512	1-115-156-11	CERAMIC CHIP	1µF		10V
C513	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C514	1-162-915-11	CERAMIC CHIP	10pF	0.5pF	50V
C515	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C517	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C518	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C519	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C520	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C521	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C522	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C523	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C524	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C525	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C526	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C527	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C528	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C529	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C530	1-126-933-11	ELECT	100µF	20%	16V
C531	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C532	1-126-965-91	ELECT	22µF	20%	50V
C533	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C534	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C535	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C536	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C537	1-126-933-11	ELECT	100µF	20%	16V
C538	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C539	1-162-913-11	CERAMIC CHIP	8pF	0.5pF	50V
C540	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C541	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C542	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C543	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C544	1-126-933-11	ELECT	100µF	20%	16V
C546	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C547	1-126-933-11	ELECT	100µF	20%	16V
C548	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C549	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C550	1-162-913-11	CERAMIC CHIP	8pF	0.5pF	50V
C558	1-126-964-11	ELECT	10µF	20%	50V
C559	1-136-177-00	FILM	1µF	5%	50V
C560	1-136-177-00	FILM	1µF	5%	50V
C561	1-126-964-11	ELECT	10µF	20%	50V
C562	1-164-156-11	CERAMIC CHIP	0.1µF		25V

< CONNECTOR >

CN001	* 1-793-923-11	CONNECTOR, DIN (PLUG) 64P	
CN002	1-793-173-11	PIN, PC CONNECTOR(PC BOARD)50P	
CN003	* 1-793-922-11	CONNECTOR, DIN (RECEPTACLE) 64P	
CN006	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN007	* 1-764-333-11	PLUG, CONNECTOR 10P	
CN008	1-764-334-11	PLUG, CONNECTOR 11P	
CN009	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN010	* 1-564-507-11	PLUG, CONNECTOR 4P	

< DIODE >

D001	8-719-914-43	DIODE DAN202K	
D100	8-719-914-43	DIODE DAN202K	
D201	8-719-914-43	DIODE DAN202K	
D202	8-719-914-44	DIODE DAP202K	
D203	8-719-914-44	DIODE DAP202K	
D204	8-719-914-43	DIODE DAN202K	

< FERRITEBEAD >

FB001	1-469-981-21	FERRITE	0µH
FB200	1-414-229-11	FERRITE	0µH
FB201	1-414-229-11	FERRITE	0µH
FB500	1-469-179-21	FERRITE	0µH
FB501	1-469-179-21	FERRITE	0µH
FB502	1-414-229-11	FERRITE	0µH
FB503	1-414-229-11	FERRITE	0µH
FB504	1-469-835-21	FERRITE	0µH
FB505	1-469-179-21	FERRITE	0µH
FB506	1-469-179-21	FERRITE	0µH

REF.NO.	PART NO.	DESCRIPTION	REMARK
	< FILTER >		
FL200	1-239-848-21	FILTER, LOW PASS	
FL201	1-239-848-21	FILTER, LOW PASS	
FL202	1-239-848-21	FILTER, LOW PASS	
FL500	1-239-848-21	FILTER, LOW PASS	
FL501	1-239-848-21	FILTER, LOW PASS	
FL502	1-239-848-21	FILTER, LOW PASS	
FL503	1-239-848-21	FILTER, LOW PASS	
	< IC >		
IC001	6-800-670-01	IC M306V2ME-154FP	
IC002	8-759-548-56	IC M52055FP	
IC003	8-759-352-91	IC PST9143NL	
IC004	8-759-682-41	IC M24C32-WMN6T(A)	
IC006	8-759-240-87	IC TC74HCT157AF	
IC100	8-752-990-53	IC CXP961064-001Q	
IC101	8-752-990-53	IC CXP961064-001Q	
IC200	8-752-093-84	IC CXA2151Q	
IC201	8-759-548-56	IC M52055FP	
IC202	8-752-089-50	IC CXA2103Q	
IC203	6-700-205-01	IC TC74LVX157FT(EL)	
IC204	8-752-394-69	IC CXD2073Q-T4	
IC205	8-759-548-56	IC M52055FP	
IC206	6-700-205-01	IC TC74LVX157FT(EL)	
IC207	8-752-089-50	IC CXA2103Q	
IC400	8-759-100-96	IC µPC4558G2	
IC401	8-752-080-04	IC CXA2069Q	
IC402	8-759-526-64	IC NJM2521M(TE2)	
IC403	8-759-526-64	IC NJM2521M(TE2)	
IC500	8-759-568-27	IC MSM514265C-60JS	
IC501	8-759-594-44	IC µPD64082GF-3BA	
	< COIL >		
L001	1-469-555-21	INDUCTOR 10µH	
L003	1-469-555-21	INDUCTOR 10µH	
L005	1-469-555-21	INDUCTOR 10µH	
L100	1-469-555-21	INDUCTOR 10µH	
L101	1-469-555-21	INDUCTOR 10µH	
L102	1-469-555-21	INDUCTOR 10µH	
L103	1-469-555-21	INDUCTOR 10µH	
L104	1-469-555-21	INDUCTOR 10µH	
L200	1-469-555-21	INDUCTOR 10µH	
L201	1-469-555-21	INDUCTOR 10µH	
L202	1-469-555-21	INDUCTOR 10µH	
L203	1-469-555-21	INDUCTOR 10µH	
L204	1-469-555-21	INDUCTOR 10µH	
L205	1-469-555-21	INDUCTOR 10µH	
L206	1-469-555-21	INDUCTOR 10µH	
L208	1-469-555-21	INDUCTOR 10µH	
L209	1-469-555-21	INDUCTOR 10µH	
L210	1-469-555-21	INDUCTOR 10µH	
L211	1-469-555-21	INDUCTOR 10µH	
L400	1-469-555-21	INDUCTOR 10µH	
L401	1-469-555-21	INDUCTOR 10µH	
L402	1-469-555-21	INDUCTOR 10µH	
L500	1-469-555-21	INDUCTOR 10µH	
L501	1-469-555-21	INDUCTOR 10µH	
L502	1-469-555-21	INDUCTOR 10µH	
L503	1-469-555-21	INDUCTOR 10µH	
L504	1-469-555-21	INDUCTOR 10µH	
L505	1-469-555-21	INDUCTOR 10µH	
	< TRANSISTOR >		
Q001	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q005	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q006	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q009	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q100	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q101	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q102	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q103	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q104	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q105	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q106	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q107	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q108	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q200	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q201	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q202	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q203	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q204	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q205	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q208	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q216	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q217	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q218	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q219	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q220	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q221	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q222	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q224	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q227	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q228	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q229	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q230	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q231	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q232	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q235	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q240	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q243	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q248	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q250	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q400	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q401	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q403	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q404	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q405	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q406	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q407	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q409	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q410	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q411	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q412	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q413	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q414	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q415	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q500	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q501	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q502	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q503	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q504	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q505	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q506	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q507	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q508	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q509	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q510	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q511	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q513	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q514	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q515	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q516	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q517	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q518	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q519	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q520	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q521	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q522	8-729-422-27	TRANSISTOR 2SD601A-Q	
		< RESISTOR >	
R001	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R002	1-216-840-11	RES-CHIP 39K 5% 1/16W	
R003	1-216-809-11	RES-CHIP 100 5% 1/16W	
R004	1-216-817-11	RES-CHIP 470 5% 1/16W	
R005	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R006	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R007	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R008	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R009	1-216-809-11	RES-CHIP 100 5% 1/16W	
R010	1-216-809-11	RES-CHIP 100 5% 1/16W	
R011	1-216-809-11	RES-CHIP 100 5% 1/16W	
R012	1-216-809-11	RES-CHIP 100 5% 1/16W	
R013	1-216-809-11	RES-CHIP 100 5% 1/16W	
R014	1-216-809-11	RES-CHIP 100 5% 1/16W	
R015	1-216-809-11	RES-CHIP 100 5% 1/16W	
R016	1-216-809-11	RES-CHIP 100 5% 1/16W	
R017	1-216-809-11	RES-CHIP 100 5% 1/16W	
R018	1-216-809-11	RES-CHIP 100 5% 1/16W	
R019	1-216-809-11	RES-CHIP 100 5% 1/16W	
R020	1-216-809-11	RES-CHIP 100 5% 1/16W	
R021	1-216-809-11	RES-CHIP 100 5% 1/16W	
R022	1-216-809-11	RES-CHIP 100 5% 1/16W	
R023	1-216-809-11	RES-CHIP 100 5% 1/16W	
R024	1-216-809-11	RES-CHIP 100 5% 1/16W	
R025	1-216-809-11	RES-CHIP 100 5% 1/16W	
R028	1-216-809-11	RES-CHIP 100 5% 1/16W	
R029	1-216-809-11	RES-CHIP 100 5% 1/16W	
R030	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R031	1-216-809-11	RES-CHIP 100 5% 1/16W	
R032	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R033	1-216-809-11	RES-CHIP 100 5% 1/16W	
R034	1-216-809-11	RES-CHIP 100 5% 1/16W	
R035	1-216-809-11	RES-CHIP 100 5% 1/16W	
R036	1-216-809-11	RES-CHIP 100 5% 1/16W	
R037	1-216-809-11	RES-CHIP 100 5% 1/16W	
R038	1-216-809-11	RES-CHIP 100 5% 1/16W	
R039	1-216-809-11	RES-CHIP 100 5% 1/16W	
R040	1-216-809-11	RES-CHIP 100 5% 1/16W	
R041	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R042	1-216-809-11	RES-CHIP 100 5% 1/16W	
R043	1-216-809-11	RES-CHIP 100 5% 1/16W	
R044	1-216-849-11	RES-CHIP 220K 5% 1/16W	
R045	1-216-809-11	RES-CHIP 100 5% 1/16W	
R046	1-216-809-11	RES-CHIP 100 5% 1/16W	
R047	1-218-708-11	METAL CHIP 4.7K 0.5% 1/16W	
R048	1-216-809-11	RES-CHIP 100 5% 1/16W	
R051	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R053	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R054	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R055	1-216-809-11	RES-CHIP 100 5% 1/16W	
R059	1-216-809-11	RES-CHIP 100 5% 1/16W	
R060	1-216-809-11	RES-CHIP 100 5% 1/16W	
R062	1-216-864-11	SHORT 0	
R063	1-216-841-11	RES-CHIP 47K 5% 1/16W	
R064	1-216-809-11	RES-CHIP 100 5% 1/16W	
R065	1-216-809-11	RES-CHIP 100 5% 1/16W	
R066	1-216-809-11	RES-CHIP 100 5% 1/16W	
R068	1-216-864-11	SHORT 0	
R069	1-216-829-11	RES-CHIP 4.7K 5% 1/16W	
R070	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R071	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R072	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R074	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R075	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R076	1-216-819-11	RES-CHIP 680 5% 1/16W	
R077	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R078	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R079	1-216-809-11	RES-CHIP 100 5% 1/16W	
R082	1-216-815-11	RES-CHIP 330 5% 1/16W	
R083	1-216-809-11	RES-CHIP 100 5% 1/16W	
R084	1-216-809-11	RES-CHIP 100 5% 1/16W	
R085	1-216-841-11	RES-CHIP 47K 5% 1/16W	
R086	1-216-828-11	RES-CHIP 3.9K 5% 1/16W	
R087	1-216-805-11	RES-CHIP 47 5% 1/16W	
R088	1-216-805-11	RES-CHIP 47 5% 1/16W	

B

REF.NO.	PART NO.	DESCRIPTION			REMARK
R089	1-216-805-11	RES-CHIP	47	5%	1/16W
R090	1-216-813-11	RES-CHIP	220	5%	1/16W
R091	1-216-813-11	RES-CHIP	220	5%	1/16W
R092	1-216-813-11	RES-CHIP	220	5%	1/16W
R098	1-216-841-11	RES-CHIP	47K	5%	1/16W
R102	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R103	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R104	1-216-841-11	RES-CHIP	47K	5%	1/16W
R105	1-216-841-11	RES-CHIP	47K	5%	1/16W
R106	1-216-809-11	RES-CHIP	100	5%	1/16W
R107	1-216-809-11	RES-CHIP	100	5%	1/16W
R108	1-216-833-11	RES-CHIP	10K	5%	1/16W
R109	1-216-813-11	RES-CHIP	220	5%	1/16W
R110	1-216-813-11	RES-CHIP	220	5%	1/16W
R111	1-216-813-11	RES-CHIP	220	5%	1/16W
R112	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R113	1-216-833-11	RES-CHIP	10K	5%	1/16W
R114	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R115	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R117	1-216-857-11	RES-CHIP	1M	5%	1/16W
R118	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R119	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R120	1-216-833-11	RES-CHIP	10K	5%	1/16W
R121	1-216-864-11	SHORT	0		
R122	1-216-849-11	RES-CHIP	220K	5%	1/16W
R123	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R124	1-216-849-11	RES-CHIP	220K	5%	1/16W
R125	1-216-841-11	RES-CHIP	47K	5%	1/16W
R126	1-216-845-11	RES-CHIP	100K	5%	1/16W
R130	1-216-833-11	RES-CHIP	10K	5%	1/16W
R131	1-216-864-11	SHORT	0		
R132	1-216-845-11	RES-CHIP	100K	5%	1/16W
R133	1-216-833-11	RES-CHIP	10K	5%	1/16W
R134	1-216-849-11	RES-CHIP	220K	5%	1/16W
R135	1-216-845-11	RES-CHIP	100K	5%	1/16W
R136	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R137	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R138	1-216-841-11	RES-CHIP	47K	5%	1/16W
R139	1-216-841-11	RES-CHIP	47K	5%	1/16W
R140	1-216-809-11	RES-CHIP	100	5%	1/16W
R141	1-216-809-11	RES-CHIP	100	5%	1/16W
R142	1-216-833-11	RES-CHIP	10K	5%	1/16W
R143	1-216-813-11	RES-CHIP	220	5%	1/16W
R144	1-216-813-11	RES-CHIP	220	5%	1/16W
R145	1-216-813-11	RES-CHIP	220	5%	1/16W
R146	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R147	1-216-833-11	RES-CHIP	10K	5%	1/16W
R148	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R149	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R151	1-216-857-11	RES-CHIP	1M	5%	1/16W
R152	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R153	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R154	1-216-864-11	SHORT	0		
R155	1-216-833-11	RES-CHIP	10K	5%	1/16W
R156	1-216-809-11	RES-CHIP	100	5%	1/16W
R157	1-216-809-11	RES-CHIP	100	5%	1/16W
R158	1-216-809-11	RES-CHIP	100	5%	1/16W
R200	1-216-837-11	RES-CHIP	22K	5%	1/16W
R201	1-216-809-11	RES-CHIP	100	5%	1/16W
R202	1-216-809-11	RES-CHIP	100	5%	1/16W
R203	1-216-837-11	RES-CHIP	22K	5%	1/16W
R204	1-216-819-11	RES-CHIP	680	5%	1/16W
R205	1-216-809-11	RES-CHIP	100	5%	1/16W
R206	1-216-809-11	RES-CHIP	100	5%	1/16W
R207	1-216-821-11	RES-CHIP	1K	5%	1/16W
R208	1-216-819-11	RES-CHIP	680	5%	1/16W
R210	1-216-837-11	RES-CHIP	22K	5%	1/16W
R211	1-216-809-11	RES-CHIP	100	5%	1/16W
R212	1-216-837-11	RES-CHIP	22K	5%	1/16W
R213	1-216-809-11	RES-CHIP	100	5%	1/16W
R214	1-216-809-11	RES-CHIP	100	5%	1/16W
R215	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R216	1-216-819-11	RES-CHIP	680	5%	1/16W
R219	1-216-809-11	RES-CHIP	100	5%	1/16W
R220	1-216-809-11	RES-CHIP	100	5%	1/16W
R221	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R222	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R223	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R224	1-216-809-11	RES-CHIP	100	5%	1/16W
R225	1-216-819-11	RES-CHIP	680	5%	1/16W
R226	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R227	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R228	1-216-837-11	RES-CHIP	22K	5%	1/16W
R231	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R232	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R233	1-216-809-11	RES-CHIP	100	5%	1/16W
R234	1-216-837-11	RES-CHIP	22K	5%	1/16W
R235	1-216-835-11	RES-CHIP	15K	5%	1/16W
R236	1-216-819-11	RES-CHIP	680	5%	1/16W
R239	1-216-804-11	RES-CHIP	39	5%	1/16W
R241	1-216-809-11	RES-CHIP	100	5%	1/16W
R242	1-216-809-11	RES-CHIP	100	5%	1/16W
R243	1-216-809-11	RES-CHIP	100	5%	1/16W
R244	1-216-819-11	RES-CHIP	680	5%	1/16W
R248	1-216-804-11	RES-CHIP	39	5%	1/16W
R253	1-216-804-11	RES-CHIP	39	5%	1/16W
R257	1-216-864-11	SHORT	0		
R258	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R259	1-218-734-11	METAL CHIP	56K	0.5%	1/16W
R260	1-216-797-11	RES-CHIP	10	5%	1/16W
R262	1-216-805-11	RES-CHIP	47	5%	1/16W
R263	1-216-809-11	RES-CHIP	100	5%	1/16W
R264	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R266	1-216-809-11	RES-CHIP	100	5%	1/16W
R268	1-216-809-11	RES-CHIP	100	5%	1/16W
R270	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R271	1-216-797-11	RES-CHIP	10	5%	1/16W
R273	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R275	1-216-817-11	RES-CHIP	470	5%	1/16W
R276	1-216-817-11	RES-CHIP	470	5%	1/16W
R277	1-216-817-11	RES-CHIP	470	5%	1/16W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R278	1-216-817-11	RES-CHIP	470	5%	1/16W
R279	1-216-817-11	RES-CHIP	470	5%	1/16W
R280	1-216-817-11	RES-CHIP	470	5%	1/16W
R281	1-216-797-11	RES-CHIP	10	5%	1/16W
R282	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R283	1-216-837-11	RES-CHIP	22K	5%	1/16W
R284	1-216-813-11	RES-CHIP	220	5%	1/16W
R285	1-216-837-11	RES-CHIP	22K	5%	1/16W
R287	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R288	1-216-817-11	RES-CHIP	470	5%	1/16W
R289	1-216-817-11	RES-CHIP	470	5%	1/16W
R290	1-216-813-11	RES-CHIP	220	5%	1/16W
R291	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R292	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R294	1-216-811-11	RES-CHIP	150	5%	1/16W
R295	1-216-839-11	RES-CHIP	33K	5%	1/16W
R296	1-216-839-11	RES-CHIP	33K	5%	1/16W
R297	1-216-817-11	RES-CHIP	470	5%	1/16W
R298	1-216-812-11	RES-CHIP	180	5%	1/16W
R299	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R300	1-216-811-11	RES-CHIP	150	5%	1/16W
R302	1-216-817-11	RES-CHIP	470	5%	1/16W
R303	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R304	1-216-821-11	RES-CHIP	1K	5%	1/16W
R305	1-216-812-11	RES-CHIP	180	5%	1/16W
R306	1-216-817-11	RES-CHIP	470	5%	1/16W
R307	1-216-817-11	RES-CHIP	470	5%	1/16W
R308	1-216-817-11	RES-CHIP	470	5%	1/16W
R309	1-216-817-11	RES-CHIP	470	5%	1/16W
R310	1-216-821-11	RES-CHIP	1K	5%	1/16W
R311	1-216-821-11	RES-CHIP	1K	5%	1/16W
R312	1-216-817-11	RES-CHIP	470	5%	1/16W
R313	1-216-833-11	RES-CHIP	10K	5%	1/16W
R314	1-216-809-11	RES-CHIP	100	5%	1/16W
R315	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R316	1-216-833-11	RES-CHIP	10K	5%	1/16W
R317	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R318	1-216-807-11	RES-CHIP	68	5%	1/16W
R319	1-216-821-11	RES-CHIP	1K	5%	1/16W
R320	1-216-837-11	RES-CHIP	22K	5%	1/16W
R321	1-216-841-11	RES-CHIP	47K	5%	1/16W
R322	1-216-821-11	RES-CHIP	1K	5%	1/16W
R323	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R324	1-216-809-11	RES-CHIP	100	5%	1/16W
R325	1-216-833-11	RES-CHIP	10K	5%	1/16W
R326	1-216-837-11	RES-CHIP	22K	5%	1/16W
R327	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R328	1-216-809-11	RES-CHIP	100	5%	1/16W
R329	1-216-837-11	RES-CHIP	22K	5%	1/16W
R330	1-216-805-11	RES-CHIP	47	5%	1/16W
R331	1-216-807-11	RES-CHIP	68	5%	1/16W
R332	1-216-819-11	RES-CHIP	680	5%	1/16W
R333	1-216-809-11	RES-CHIP	100	5%	1/16W
R334	1-216-809-11	RES-CHIP	100	5%	1/16W
R339	1-216-809-11	RES-CHIP	100	5%	1/16W
R340	1-216-819-11	RES-CHIP	680	5%	1/16W
R346	1-216-837-11	RES-CHIP	22K	5%	1/16W
R351	1-216-835-11	RES-CHIP	15K	5%	1/16W
R352	1-216-809-11	RES-CHIP	100	5%	1/16W
R353	1-216-837-11	RES-CHIP	22K	5%	1/16W
R355	1-216-819-11	RES-CHIP	680	5%	1/16W
R359	1-216-809-11	RES-CHIP	100	5%	1/16W
R360	1-216-819-11	RES-CHIP	680	5%	1/16W
R368	1-216-837-11	RES-CHIP	22K	5%	1/16W
R371	1-216-809-11	RES-CHIP	100	5%	1/16W
R372	1-216-837-11	RES-CHIP	22K	5%	1/16W
R373	1-216-819-11	RES-CHIP	680	5%	1/16W
R375	1-216-809-11	RES-CHIP	100	5%	1/16W
R376	1-216-819-11	RES-CHIP	680	5%	1/16W
R377	1-216-817-11	RES-CHIP	470	5%	1/16W
R378	1-216-817-11	RES-CHIP	470	5%	1/16W
R379	1-216-817-11	RES-CHIP	470	5%	1/16W
R400	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R401	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R402	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
R403	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
R404	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R405	1-216-809-11	RES-CHIP	100	5%	1/16W
R406	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R407	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R408	1-216-809-11	RES-CHIP	100	5%	1/16W
R409	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R410	1-216-809-11	RES-CHIP	100	5%	1/16W
R411	1-216-809-11	RES-CHIP	100	5%	1/16W
R412	1-216-809-11	RES-CHIP	100	5%	1/16W
R413	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R414	1-216-809-11	RES-CHIP	100	5%	1/16W
R415	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R416	1-216-809-11	RES-CHIP	100	5%	1/16W
R417	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R418	1-216-809-11	RES-CHIP	100	5%	1/16W
R419	1-216-809-11	RES-CHIP	100	5%	1/16W
R420	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R421	1-216-845-11	RES-CHIP	100K	5%	1/16W
R422	1-216-809-11	RES-CHIP	100	5%	1/16W
R423	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R424	1-216-809-11	RES-CHIP	100	5%	1/16W
R425	1-216-809-11	RES-CHIP	100	5%	1/16W
R427	1-216-845-11	RES-CHIP	100K	5%	1/16W
R428	1-216-848-11	RES-CHIP	180K	5%	1/16W
R429	1-216-821-11	RES-CHIP	1K	5%	1/16W
R430	1-216-809-11	RES-CHIP	100	5%	1/16W
R432	1-216-809-11	RES-CHIP	100	5%	1/16W
R433	1-216-833-11	RES-CHIP	10K	5%	1/16W
R434	1-216-805-11	RES-CHIP	47	5%	1/16W
R437	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R438	1-216-809-11	RES-CHIP	100	5%	1/16W
R439	1-216-821-11	RES-CHIP	1K	5%	1/16W
R440	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R441	1-216-813-11	RES-CHIP	220	5%	1/16W
R443	1-216-809-11	RES-CHIP	100	5%	1/16W
R444	1-216-813-11	RES-CHIP	220	5%	1/16W

B

REF.NO.	PART NO.	DESCRIPTION			REMARK
R445	1-216-809-11	RES-CHIP	100	5%	1/16W
R446	1-216-853-11	RES-CHIP	470K	5%	1/16W
R447	1-216-817-11	RES-CHIP	470	5%	1/16W
R448	1-216-842-11	RES-CHIP	56K	5%	1/16W
R449	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R450	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R451	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R452	1-216-821-11	RES-CHIP	1K	5%	1/16W
R453	1-216-809-11	RES-CHIP	100	5%	1/16W
R454	1-216-809-11	RES-CHIP	100	5%	1/16W
R455	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R456	1-216-809-11	RES-CHIP	100	5%	1/16W
R457	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R458	1-216-809-11	RES-CHIP	100	5%	1/16W
R459	1-216-809-11	RES-CHIP	100	5%	1/16W
R460	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R461	1-216-857-11	RES-CHIP	1M	5%	1/16W
R463	1-216-806-11	RES-CHIP	56	5%	1/16W
R464	1-216-853-11	RES-CHIP	470K	5%	1/16W
R465	1-216-821-11	RES-CHIP	1K	5%	1/16W
R466	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R468	1-216-817-11	RES-CHIP	470	5%	1/16W
R469	1-216-853-11	RES-CHIP	470K	5%	1/16W
R470	1-216-821-11	RES-CHIP	1K	5%	1/16W
R471	1-216-841-11	RES-CHIP	47K	5%	1/16W
R473	1-216-821-11	RES-CHIP	1K	5%	1/16W
R474	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R475	1-216-817-11	RES-CHIP	470	5%	1/16W
R476	1-216-833-11	RES-CHIP	10K	5%	1/16W
R477	1-216-845-11	RES-CHIP	100K	5%	1/16W
R478	1-216-833-11	RES-CHIP	10K	5%	1/16W
R479	1-216-821-11	RES-CHIP	1K	5%	1/16W
R480	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R481	1-216-821-11	RES-CHIP	1K	5%	1/16W
R482	1-216-813-11	RES-CHIP	220	5%	1/16W
R483	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R484	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R485	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R486	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R504	1-216-821-11	RES-CHIP	1K	5%	1/16W
R505	1-216-809-11	RES-CHIP	100	5%	1/16W
R506	1-216-813-11	RES-CHIP	220	5%	1/16W
R507	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R508	1-216-821-11	RES-CHIP	1K	5%	1/16W
R509	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R510	1-216-813-11	RES-CHIP	220	5%	1/16W
R511	1-216-833-11	RES-CHIP	10K	5%	1/16W
R512	1-216-837-11	RES-CHIP	22K	5%	1/16W
R514	1-216-837-11	RES-CHIP	22K	5%	1/16W
R515	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R516	1-216-837-11	RES-CHIP	22K	5%	1/16W
R517	1-216-853-11	RES-CHIP	470K	5%	1/16W
R518	1-216-837-11	RES-CHIP	22K	5%	1/16W
R520	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R521	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R522	1-216-809-11	RES-CHIP	100	5%	1/16W
R523	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R524	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R525	1-216-821-11	RES-CHIP	1K	5%	1/16W
R526	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R527	1-216-821-11	RES-CHIP	1K	5%	1/16W
R528	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R529	1-216-821-11	RES-CHIP	1K	5%	1/16W
R530	1-216-839-11	RES-CHIP	33K	5%	1/16W
R531	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R532	1-216-817-11	RES-CHIP	470	5%	1/16W
R533	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R534	1-216-819-11	RES-CHIP	680	5%	1/16W
R535	1-218-690-11	METAL CHIP	820	0.5%	1/16W
R536	1-216-834-11	RES-CHIP	12K	5%	1/16W
R537	1-216-821-11	RES-CHIP	1K	5%	1/16W
R538	1-216-817-11	RES-CHIP	470	5%	1/16W
R542	1-216-821-11	RES-CHIP	1K	5%	1/16W
R543	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R544	1-216-821-11	RES-CHIP	1K	5%	1/16W
R545	1-216-839-11	RES-CHIP	33K	5%	1/16W
R546	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R547	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R548	1-216-819-11	RES-CHIP	680	5%	1/16W
R549	1-218-690-11	METAL CHIP	820	0.5%	1/16W
R550	1-216-834-11	RES-CHIP	12K	5%	1/16W
R551	1-216-821-11	RES-CHIP	1K	5%	1/16W
R555	1-216-805-11	RES-CHIP	47	5%	1/16W
R556	1-216-805-11	RES-CHIP	47	5%	1/16W
R557	1-216-805-11	RES-CHIP	47	5%	1/16W
R558	1-216-833-11	RES-CHIP	10K	5%	1/16W
R559	1-216-833-11	RES-CHIP	10K	5%	1/16W
R560	1-216-833-11	RES-CHIP	10K	5%	1/16W
R561	1-216-833-11	RES-CHIP	10K	5%	1/16W
R562	1-216-841-11	RES-CHIP	47K	5%	1/16W
R563	1-216-841-11	RES-CHIP	47K	5%	1/16W
R564	1-216-841-11	RES-CHIP	47K	5%	1/16W
R565	1-216-841-11	RES-CHIP	47K	5%	1/16W
R566	1-216-841-11	RES-CHIP	47K	5%	1/16W
R567	1-216-841-11	RES-CHIP	47K	5%	1/16W
R568	1-216-833-11	RES-CHIP	10K	5%	1/16W
R569	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R570	1-218-742-11	METAL CHIP	120K	0.5%	1/16W
R571	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R572	1-218-742-11	METAL CHIP	120K	0.5%	1/16W
R574	1-216-809-11	RES-CHIP	100	5%	1/16W
R575	1-216-821-11	RES-CHIP	1K	5%	1/16W
R576	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R577	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R578	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R579	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R580	1-216-813-11	RES-CHIP	220	5%	1/16W
R581	1-216-809-11	RES-CHIP	100	5%	1/16W
R582	1-216-817-11	RES-CHIP	470	5%	1/16W
R583	1-216-833-11	RES-CHIP	10K	5%	1/16W
R584	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R585	1-216-825-11	RES-CHIP	2.2K	5%	1/16W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R586	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R587	1-216-864-11	SHORT	0		
R588	1-216-864-11	SHORT	0		
R589	1-216-809-11	RES-CHIP	100	5%	1/16W
R590	1-216-821-11	RES-CHIP	1K	5%	1/16W
R591	1-216-821-11	RES-CHIP	1K	5%	1/16W
R592	1-216-821-11	RES-CHIP	1K	5%	1/16W
R593	1-216-864-11	SHORT	0		
R594	1-216-817-11	RES-CHIP	470	5%	1/16W
R595	1-216-817-11	RES-CHIP	470	5%	1/16W
R596	1-216-821-11	RES-CHIP	1K	5%	1/16W
		< NETWORK RESISTOR >			
RB500	1-233-411-21	RES, CHIP NETWORK	220		
RB501	1-233-411-21	RES, CHIP NETWORK	220		
RB502	1-233-411-21	RES, CHIP NETWORK	220		
RB503	1-233-411-21	RES, CHIP NETWORK	220		
RB504	1-233-411-21	RES, CHIP NETWORK	220		
RB505	1-233-411-21	RES, CHIP NETWORK	220		
RB506	1-233-411-21	RES, CHIP NETWORK	220		
		< CRYSTAL >			
X001	1-781-931-21	VIBRATOR, CRYSTAL (10MHz)			
X003	1-795-371-21	VIBRATOR, CERAMIC (25MHz)			
X100	1-579-175-11	VIBRATOR, CERAMIC (10MHz)			
X101	1-579-175-11	VIBRATOR, CERAMIC (10MHz)			
X200	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
X201	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)			
X202	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)			
**********					
	* A-1299-523-A	AD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1601	1-126-933-11	ELECT	100µF	20%	16V
C1604	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1605	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1606	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1607	1-126-933-11	ELECT	100µF	20%	16V
C1608	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1609	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C1610	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C1611	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1612	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1613	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1614	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1615	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1616	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1617	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1618	1-126-933-11	ELECT	100µF	20%	16V
C1619	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1620	1-162-920-11	CERAMIC CHIP	27pF	5%	50V
C1621	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1622	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C1623	1-162-915-11	CERAMIC CHIP	10pF	0.5pF	50V
C1624	1-162-915-11	CERAMIC CHIP	10pF	0.5pF	50V
C1625	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1626	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1627	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1628	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1629	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1630	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1631	1-126-933-11	ELECT	100µF	20%	16V
C1632	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1633	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1634	1-126-963-11	ELECT	4.7µF	20%	50V
C1635	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C1636	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1637	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C1638	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C1639	1-126-933-11	ELECT	100µF	20%	16V
C1640	1-126-933-11	ELECT	100µF	20%	16V
C1641	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1643	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1644	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1645	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C1646	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C1647	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C1649	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C1651	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1652	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1656	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1657	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1658	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1659	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1661	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1663	1-126-933-11	ELECT	100µF	20%	16V
C1664	1-126-933-11	ELECT	100µF	20%	16V
C1665	1-126-933-11	ELECT	100µF	20%	16V
C1666	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1668	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1669	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1670	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1671	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1672	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1673	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1674	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C1675	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C1676	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C1677	1-126-933-11	ELECT	100µF	20%	16V
C1678	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C1680	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1681	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1682	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1683	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1684	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1685	1-164-156-11	CERAMIC CHIP	0.1µF		25V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1688	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1690	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1691	1-126-933-11	ELECT	100µF	20%	16V
C1692	1-126-933-11	ELECT	100µF	20%	16V
C1693	1-126-933-11	ELECT	100µF	20%	16V
C1694	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1695	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1696	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1697	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1698	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1699	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1700	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1701	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C1704	1-126-933-11	ELECT	100µF	20%	16V
C1707	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C1708	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C1709	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C1711	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C1712	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1714	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1715	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1717	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1718	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1720	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1721	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1722	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1730	1-126-916-11	ELECT	1000µF	20%	6.3V
C1731	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C1732	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C1733	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C1734	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
		< CONNECTOR >			
CN1601	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P			
CN1602	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P			
		< DIODE >			
D1601	8-719-988-61	DIODE 1SS355TE-17			
D1603	8-719-988-61	DIODE 1SS355TE-17			
D1604	8-719-069-54	DIODE UDZSTE-175.1B			
D1605	8-719-069-54	DIODE UDZSTE-175.1B			
D1606	8-719-069-54	DIODE UDZSTE-175.1B			
D1607	8-719-069-54	DIODE UDZSTE-175.1B			
		< FERRITEBEAD >			
FB1601	1-414-445-11	FERRITE	0µH		
FB1602	1-414-445-11	FERRITE	0µH		
FB1603	1-414-445-11	FERRITE	0µH		
FB1604	1-414-445-11	FERRITE	0µH		
FB1605	1-414-445-11	FERRITE	0µH		
FB1606	1-414-445-11	FERRITE	0µH		
FB1607	1-414-445-11	FERRITE	0µH		
FB1608	1-414-445-11	FERRITE	0µH		
FB1609	1-414-445-11	FERRITE	0µH		
FB1610	1-414-445-11	FERRITE	0µH		
FB1611	1-414-445-11	FERRITE	0µH		
FB1612	1-414-445-11	FERRITE	0µH		
FB1613	1-414-445-11	FERRITE	0µH		
FB1614	1-414-445-11	FERRITE	0µH		
FB1615	1-414-445-11	FERRITE	0µH		
FB1616	1-414-445-11	FERRITE	0µH		
FB1617	1-414-445-11	FERRITE	0µH		
		< IC >			
IC1601	8-759-683-55	IC CM0017AF			
IC1602	8-759-830-08	IC NJM2068V-TE2			
IC1603	8-759-830-08	IC NJM2068V-TE2			
IC1605	8-759-352-91	IC PST9143NL			
IC1606	8-752-925-71	IC CXP86448-635Q			
IC1607	8-759-682-41	IC M24C32-WMN6T(A)			
IC1608	8-759-829-87	IC CD0031AM			
IC1609	8-759-830-08	IC NJM2068V-TE2			
IC1610	8-759-830-08	IC NJM2068V-TE2			
IC1611	8-759-830-08	IC NJM2068V-TE2			
IC1612	8-759-830-08	IC NJM2068V-TE2			
		< COIL >			
L1601	1-469-555-21	INDUCTOR	10µH		
L1602	1-469-555-21	INDUCTOR	10µH		
		< TRANSISTOR >			
Q1603	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1604	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1605	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1606	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R1601	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1604	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1605	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1606	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1607	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1608	1-216-809-11	RES-CHIP	100	5%	1/16W
R1609	1-216-809-11	RES-CHIP	100	5%	1/16W
R1611	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1614	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1615	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1618	1-216-809-11	RES-CHIP	100	5%	1/16W
R1619	1-216-864-11	SHORT	0		
R1620	1-216-809-11	RES-CHIP	100	5%	1/16W
R1621	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1622	1-216-817-11	RES-CHIP	470	5%	1/16W
R1623	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1625	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1627	1-216-821-11	RES-CHIP	1K	5%	1/16W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1634	1-216-809-11	RES-CHIP	100	5%	1/16W
R1635	1-216-809-11	RES-CHIP	100	5%	1/16W
R1636	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1637	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1638	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1639	1-216-809-11	RES-CHIP	100	5%	1/16W
R1640	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1641	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1642	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1643	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1644	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1645	1-216-815-11	RES-CHIP	330	5%	1/16W
R1646	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1647	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1648	1-216-809-11	RES-CHIP	100	5%	1/16W
R1649	1-216-809-11	RES-CHIP	100	5%	1/16W
R1650	1-216-815-11	RES-CHIP	330	5%	1/16W
R1651	1-216-815-11	RES-CHIP	330	5%	1/16W
R1652	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1653	1-216-817-11	RES-CHIP	470	5%	1/16W
R1654	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1655	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R1656	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1657	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1658	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1659	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1660	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1661	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1662	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R1663	1-216-818-11	RES-CHIP	560	5%	1/16W
R1665	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1666	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1667	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1668	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1669	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1670	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1671	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1672	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1673	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1674	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1675	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1676	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1681	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1682	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1683	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1684	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1685	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1690	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1691	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1692	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1693	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1694	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1695	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1696	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1697	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1698	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1699	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1700	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1701	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1702	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1703	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1704	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1705	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1706	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R1707	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1708	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1709	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1710	1-216-864-11	SHORT	0		
R1711	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1712	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1713	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1714	1-216-833-11	RES-CHIP	10K	5%	1/16W
		< NETWORK RESISTOR >			
RB1603	1-233-576-11	RES, CHIP NETWORK		100	
RB1604	1-233-576-11	RES, CHIP NETWORK		100	
RB1605	1-233-576-11	RES, CHIP NETWORK		100	
		< CRYSTAL >			
X1601	1-767-925-21	VIBRATOR, CRYSTAL (12MHz)			
**********					
*	A-1299-611-A	A BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
*	7-651-000-50	GREASE,SILICON (G-746) 200G			
		< CAPACITOR >			
C3001	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3002	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C3003	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3004	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3005	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3006	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C3007	1-164-392-11	CERAMIC CHIP	390pF	5%	50V
C3008	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3013	1-126-933-11	ELECT	100µF	20%	16V
C3014	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3015	1-126-933-11	ELECT	100µF	20%	16V
C3016	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3017	1-110-563-11	CERAMIC CHIP	0.068µF	10%	16V
C3018	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3019	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C3020	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3021	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3022	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3023	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3024	1-164-156-11	CERAMIC CHIP	0.1µF		25V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C3025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3027	1-126-933-11	ELECT	100µF	20%	16V
C3028	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3029	1-126-933-11	ELECT	100µF	20%	16V
C3030	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3031	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3032	1-126-963-11	ELECT	4.7µF	20%	50V
C3033	1-126-933-11	ELECT	100µF	20%	16V
C3034	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3035	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3036	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3037	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3038	1-126-933-11	ELECT	100µF	20%	16V
C3039	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3040	1-126-933-11	ELECT	100µF	20%	16V
C3041	1-126-933-11	ELECT	100µF	20%	16V
C3042	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3045	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3046	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3047	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3048	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3049	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3050	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3051	1-126-933-11	ELECT	100µF	20%	16V
C3052	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3053	1-130-495-00	MYLAR	0.1µF	5%	50V
C3054	1-136-244-11	FILM	0.1µF	5%	50V
C3055	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3056	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3057	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3059	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3062	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3063	1-162-928-11	CERAMIC CHIP	120pF	5%	50V
C3064	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3066	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3068	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3069	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3071	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3072	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3073	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3075	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3076	1-126-933-11	ELECT	100µF	20%	16V
C3077	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3078	1-126-933-11	ELECT	100µF	20%	16V
C3080	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3081	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3082	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3083	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3084	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3085	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3086	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3087	1-164-218-11	CERAMIC CHIP	180pF	5%	50V
C3089	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3090	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3091	1-126-933-11	ELECT	100µF	20%	16V
C3092	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3093	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3094	1-104-665-11	ELECT	100µF	20%	25V
C3095	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3096	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3097	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3098	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3100	1-126-933-11	ELECT	100µF	20%	16V
C3101	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3102	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3103	1-126-933-11	ELECT	100µF	20%	16V
C3104	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C3105	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3106	1-126-933-11	ELECT	100µF	20%	16V
C3107	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3108	1-164-816-11	CERAMIC CHIP	220pF	2%	50V
C3109	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3110	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3111	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3112	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3113	1-126-933-11	ELECT	100µF	20%	16V
C3114	1-126-965-91	ELECT	22µF	20%	50V
C3115	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3116	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3117	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C3118	1-126-933-11	ELECT	100µF	20%	16V
C3119	1-164-816-11	CERAMIC CHIP	220pF	2%	50V
C3120	1-126-933-11	ELECT	100µF	20%	16V
C3121	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3122	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3123	1-126-933-11	ELECT	100µF	20%	16V
C3124	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3125	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3126	1-126-964-11	ELECT	10µF	20%	50V
C3127	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3128	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3130	1-126-964-11	ELECT	10µF	20%	50V
C3131	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3132	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3133	1-126-933-11	ELECT	100µF	20%	16V
C3145	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3146	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3147	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3148	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3149	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3150	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3155	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3156	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3157	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C3158	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3160	1-162-913-11	CERAMIC CHIP	8pF	0.5pF	50V
C3161	1-162-913-11	CERAMIC CHIP	8pF	0.5pF	50V
C3163	1-126-934-11	ELECT	220µF	20%	16V
C3164	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3166	1-164-156-11	CERAMIC CHIP	0.1µF		25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C3167	1-126-933-11	ELECT 100µF 20% 16V	
C3172	1-164-156-11	CERAMIC CHIP 0.1µF 25V	
C3173	1-164-156-11	CERAMIC CHIP 0.1µF 25V	
C3174	1-164-156-11	CERAMIC CHIP 0.1µF 25V	
C3175	1-164-156-11	CERAMIC CHIP 0.1µF 25V	
C3176	1-164-156-11	CERAMIC CHIP 0.1µF 25V	
C3182	1-107-826-11	CERAMIC CHIP 0.1µF 10% 16V	
C3183	1-164-816-11	CERAMIC CHIP 220pF 2% 50V	
C3184	1-164-816-11	CERAMIC CHIP 220pF 2% 50V	
C3185	1-162-923-11	CERAMIC CHIP 47pF 5% 50V	
C3186	1-126-933-11	ELECT 100µF 20% 16V	
		< CONNECTOR >	
CN3001	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN3005	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN3006	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN3007	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN3008	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN3009	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN3010	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN3011	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN3012	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P	
CN3013	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P	
CN3014	* 1-764-333-11	PLUG, CONNECTOR 10P	
CN3015	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN3016	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN3017	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN3018	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN3019	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN3020	* 1-793-922-11	CONNECTOR, DIN (RECEPTACLE) 64P	
CN3021	1-695-915-11	TAB (CONTACT)	
CN3022	1-793-174-11	SOCKET,PC CONNECTOR (PC BOARD)	
CN3023	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN3024	* 1-564-511-11	PLUG, CONNECTOR 8P	
		< DIODE >	
D3001	8-719-083-87	DIODE UDZS-TE17-33B	
D3002	8-719-056-85	DIODE UDZ-TE-17- 8.2B	
D3003	8-719-404-50	DIODE MA111-TX	
D3004	8-719-069-54	DIODE UDZSTE-175.1B	
D3009	8-719-404-50	DIODE MA111-TX	
D3011	8-719-404-50	DIODE MA111-TX	
D3012	8-719-404-50	DIODE MA111-TX	
D3013	8-719-404-50	DIODE MA111-TX	
D3014	8-719-069-55	DIODE UDZSTE-175.6B	
D3015	8-719-069-55	DIODE UDZSTE-175.6B	
D3016	8-719-069-55	DIODE UDZSTE-175.6B	
D3023	8-719-404-50	DIODE MA111-TX	
D3026	8-719-404-50	DIODE MA111-TX	
D3027	8-719-991-33	DIODE 1SS133T-77	
		< IC >	
IC3001	8-759-830-08	IC NJM2068V-TE2	
IC3002	8-759-833-71	IC NJM2395F09	
IC3003	8-759-833-12	IC NJM2395AF05	
IC3004	8-759-830-08	IC NJM2068V-TE2	
IC3005	8-759-198-03	IC PQ09RF21	
IC3006	8-752-100-25	IC CXA2150AQ	
IC3007	8-759-833-12	IC NJM2395AF05	
IC3008	8-759-641-26	IC NJM2391DL1-33(TE1)	
IC3009	8-759-700-65	IC NJM79L05A	
IC3010	8-752-068-37	IC CXA1726AM	
IC3011	8-759-830-08	IC NJM2068V-TE2	
IC3012	8-759-830-08	IC NJM2068V-TE2	
IC3013	6-700-150-01	IC M24C04-WMN6T(A)	
IC3014	8-759-701-79	IC NJM7812FA	
IC3018	8-759-278-58	IC NJM4558V-TE2	
IC3020	8-759-278-58	IC NJM4558V-TE2	
IC3021	8-759-701-75	IC NJM7805FA	
IC3022	8-759-278-58	IC NJM4558V-TE2	
IC3023	8-759-278-58	IC NJM4558V-TE2	
IC3024	8-759-687-05	IC MAX4450EUK-TG069	
		< COIL >	
L3001	1-414-856-11	INDUCTOR 10µH	
L3002	1-414-856-11	INDUCTOR 10µH	
L3004	1-414-856-11	INDUCTOR 10µH	
L3005	1-414-856-11	INDUCTOR 10µH	
L3006	1-414-856-11	INDUCTOR 10µH	
L3007	1-414-856-11	INDUCTOR 10µH	
L3008	1-414-856-11	INDUCTOR 10µH	
L3009	1-414-856-11	INDUCTOR 10µH	
L3010	1-414-856-11	INDUCTOR 10µH	
L3011	1-414-856-11	INDUCTOR 10µH	
		< NEON LAMP >	
NL3001	1-517-778-21	LAMP, NEON	
NL3002	1-517-778-21	LAMP, NEON	
NL3003	1-517-778-21	LAMP, NEON	
		< TRANSISTOR >	
Q3001	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q3002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3020	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3021	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q3022	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q3033	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q3037	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3038	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3039	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q3040	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3041	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3042	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q3046	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q3047	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3048	8-729-122-63	TRANSISTOR 2SA1226	
Q3049	8-729-122-63	TRANSISTOR 2SA1226	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
Q3050	8-729-122-63	TRANSISTOR 2SA1226			
Q3051	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q3052	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q3053	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q3054	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3055	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3056	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3058	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3059	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3060	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3061	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3062	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q3063	8-729-422-27	TRANSISTOR 2SD601A-Q			
	< RESISTOR >				
R3001	1-216-849-11	RES-CHIP	220K	5%	1/16W
R3002	1-218-722-11	METAL CHIP	18K	0.5%	1/16W
R3003	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R3004	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R3005	1-216-813-11	RES-CHIP	220	5%	1/16W
R3006	1-216-813-11	RES-CHIP	220	5%	1/16W
R3007	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3008	1-216-813-11	RES-CHIP	220	5%	1/16W
R3009	1-216-813-11	RES-CHIP	220	5%	1/16W
R3010	1-216-813-11	RES-CHIP	220	5%	1/16W
R3011	1-216-813-11	RES-CHIP	220	5%	1/16W
R3012	1-216-813-11	RES-CHIP	220	5%	1/16W
R3013	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3014	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R3017	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3018	1-216-809-11	RES-CHIP	100	5%	1/16W
R3019	1-216-809-11	RES-CHIP	100	5%	1/16W
R3020	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3022	1-218-702-11	METAL CHIP	2.7K	0.5%	1/16W
R3024	1-218-714-11	METAL CHIP	8.2K	0.5%	1/16W
R3025	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R3026	1-216-839-11	RES-CHIP	33K	5%	1/16W
R3027	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3028	1-216-809-11	RES-CHIP	100	5%	1/16W
R3033	1-216-809-11	RES-CHIP	100	5%	1/16W
R3034	1-216-804-11	RES-CHIP	39	5%	1/16W
R3035	1-249-413-11	CARBON	470	5%	1/4W
R3037	1-216-809-11	RES-CHIP	100	5%	1/16W
R3042	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3045	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3047	1-216-804-11	RES-CHIP	39	5%	1/16W
R3048	1-249-413-11	CARBON	470	5%	1/4W
R3052	1-216-809-11	RES-CHIP	100	5%	1/16W
R3053	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3054	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3055	1-216-809-11	RES-CHIP	100	5%	1/16W
R3056	1-216-804-11	RES-CHIP	39	5%	1/16W
R3057	1-249-413-11	CARBON	470	5%	1/4W
R3059	1-216-809-11	RES-CHIP	100	5%	1/16W
R3063	1-216-829-11	RES-CHIP	4.7K	5%	1/16W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3064	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3066	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3067	1-216-815-11	RES-CHIP	330	5%	1/16W
R3068	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3069	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R3070	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R3071	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R3072	1-249-377-11	CARBON	0.47	5%	1/4W
R3073	1-216-369-00	METAL OXIDE	1	5%	2W
R3075	1-216-371-00	METAL OXIDE	1.5	5%	2W
R3077	1-249-377-11	CARBON	0.47	5%	1/4W
R3082	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3086	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R3087	1-216-809-11	RES-CHIP	100	5%	1/16W
R3091	1-249-417-11	CARBON	1K	5%	1/4W
R3092	1-249-429-11	CARBON	10K	5%	1/4W
R3095	1-216-809-11	RES-CHIP	100	5%	1/16W
R3097	1-216-365-00	METAL OXIDE	0.47	5%	2W
R3098	1-216-349-00	METAL OXIDE	1	5%	1W
R3100	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3101	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R3102	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R3103	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3106	1-216-863-11	RES-CHIP	3.3M	5%	1/16W
R3107	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R3108	1-216-809-11	RES-CHIP	100	5%	1/16W
R3109	1-216-427-00	METAL OXIDE	120	5%	1W
R3110	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3112	1-216-864-11	SHORT	0		
R3113	1-216-864-11	SHORT	0		
R3115	1-216-809-11	RES-CHIP	100	5%	1/16W
R3116	1-216-809-11	RES-CHIP	100	5%	1/16W
R3118	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R3120	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3121	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3122	1-216-817-11	RES-CHIP	470	5%	1/16W
R3123	1-216-836-11	RES-CHIP	18K	5%	1/16W
R3126	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R3129	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3130	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3131	1-216-809-11	RES-CHIP	100	5%	1/16W
R3132	1-216-809-11	RES-CHIP	100	5%	1/16W
R3133	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3134	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R3136	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R3137	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3139	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3140	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3141	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3143	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3144	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3145	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3147	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3149	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3150	1-216-864-11	SHORT	0		
R3151	1-216-833-11	RES-CHIP	10K	5%	1/16W

A

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3152	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3153	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3154	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R3155	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3156	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3157	1-218-698-11	METAL CHIP	1.8K	0.5%	1/16W
R3158	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3159	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3161	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3162	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R3163	1-218-728-11	METAL CHIP	33K	0.5%	1/16W
R3164	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R3165	1-216-809-11	RES-CHIP	100	5%	1/16W
R3166	1-216-809-11	RES-CHIP	100	5%	1/16W
R3167	1-216-864-11	SHORT	0		
R3170	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3171	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3172	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3173	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3174	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3175	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R3176	1-218-698-11	METAL CHIP	1.8K	0.5%	1/16W
R3177	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3178	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3179	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3180	1-216-809-11	RES-CHIP	100	5%	1/16W
R3181	1-216-809-11	RES-CHIP	100	5%	1/16W
R3182	1-218-728-11	METAL CHIP	33K	0.5%	1/16W
R3183	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R3184	1-216-809-11	RES-CHIP	100	5%	1/16W
R3185	1-216-809-11	RES-CHIP	100	5%	1/16W
R3186	1-216-864-11	SHORT	0		
R3187	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3188	1-216-864-11	SHORT	0		
R3203	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3204	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3205	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3208	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3209	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3212	1-215-900-11	METAL OXIDE	22K	5%	2W
R3222	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3223	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3224	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3225	1-216-809-11	RES-CHIP	100	5%	1/16W
R3226	1-216-809-11	RES-CHIP	100	5%	1/16W
R3227	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3228	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R3229	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3230	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R3231	1-216-805-11	RES-CHIP	47	5%	1/16W
R3232	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3233	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3234	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3235	1-216-846-11	RES-CHIP	120K	5%	1/16W
R3236	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3237	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3238	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3239	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3240	1-216-864-11	SHORT	0		
R3243	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3244	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3245	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R3246	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R3250	1-216-864-11	SHORT	0		
R3253	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3254	1-216-813-11	RES-CHIP	220	5%	1/16W
R3255	1-216-809-11	RES-CHIP	100	5%	1/16W
R3256	1-216-817-11	RES-CHIP	470	5%	1/16W
R3257	1-216-817-11	RES-CHIP	470	5%	1/16W
R3266	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R3267	1-216-809-11	RES-CHIP	100	5%	1/16W
R3268	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3269	1-216-840-11	RES-CHIP	39K	5%	1/16W
R3270	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R3271	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3272	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R3273	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3274	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3275	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3276	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R3277	1-218-702-11	METAL CHIP	2.7K	0.5%	1/16W
R3278	1-218-698-11	METAL CHIP	1.8K	0.5%	1/16W
R3280	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3281	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3282	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3283	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3284	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3285	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R3286	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3287	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3288	1-216-839-11	RES-CHIP	33K	5%	1/16W
R3289	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3290	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3291	1-216-833-11	RES-CHIP	10K	5%	1/16W

< TUNER >

TU3001	8-598-542-20	TUNER, FSS BTF-WA412
TU3002	8-598-542-20	TUNER, FSS BTF-WA412

< VARISTOR >

VDR3001	1-803-974-21	VARISTOR, CHIP
VDR3002	1-803-974-21	VARISTOR, CHIP

< CRYSTAL >

X3001	1-760-895-21	VIBRATOR, CERAMIC (2.69MHz)

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G

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1316-574-A	G BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C6001	⚠ 1-104-708-51	MYLAR	0.47µF	20%	250V
C6002	⚠ 1-104-706-51	MYLAR	0.22µF	20%	250V
C6003	⚠ 1-119-906-51	CERAMIC	2200pF	20%	250V
C6004	⚠ 1-161-964-91	CERAMIC	0.0047µF		250V
C6005	⚠ 1-161-964-91	CERAMIC	0.0047µF		250V
C6006	⚠ 1-161-964-91	CERAMIC	0.0047µF		250V
C6007	⚠ 1-161-964-91	CERAMIC	0.0047µF		250V
C6008	⚠ 1-125-982-11	ELECT MELF	1800µF	20%	250V
C6010	⚠ 1-125-982-11	ELECT MELF	1800µF	20%	250V
C6011	⚠ 1-119-906-51	CERAMIC	2200pF	20%	250V
C6012	1-117-228-11	MYLAR	2.2µF	10%	450V
C6013	1-126-947-11	ELECT	47µF	20%	25V
C6016	1-164-644-11	CERAMIC	330pF	10%	500V
C6017	1-135-945-81	FILM	10000pF	3%	800V
C6018	1-117-227-11	MYLAR	1µF	10%	450V
C6022	1-137-725-21	FILM	8200pF	3%	800V
C6023	1-126-965-91	ELECT	22µF	20%	50V
C6024	1-126-965-91	ELECT	22µF	20%	50V
C6025	1-164-644-11	CERAMIC	330pF	10%	500V
C6026	1-137-725-21	FILM	8200pF	3%	800V
C6033	1-137-756-21	FILM	22000pF	3%	800V
C6034	1-137-756-21	FILM	22000pF	3%	800V
C6036	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6037	1-104-665-11	ELECT	100µF	20%	25V
C6038	⚠ 1-119-906-51	CERAMIC	2200pF	20%	250V
C6039	⚠ 1-119-906-51	CERAMIC	2200pF	20%	250V
C6044	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6056	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6057	1-126-967-11	ELECT	47µF	20%	50V
C6058	1-126-964-11	ELECT	10µF	20%	50V
C6059	1-126-964-11	ELECT	10µF	20%	50V
C6060	1-136-165-00	FILM	0.1µF	5%	50V
C6061	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6065	1-126-963-11	ELECT	4.7µF	20%	50V
C6068	1-136-479-11	FILM	0.001µF	2%	50V
C6072	1-107-679-91	ELECT	10µF	20%	450V
C6080	1-126-947-11	ELECT	47µF	20%	25V
C6085	1-126-948-11	ELECT	100µF	20%	35V
C6086	1-126-949-11	ELECT	220µF	20%	35V
C6088	1-107-824-11	CERAMIC	220pF	5%	1KV
C6089	1-107-824-11	CERAMIC	220pF	5%	1KV
C6090	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6091	1-136-479-11	FILM	0.001µF	2%	50V
C6092	1-126-963-11	ELECT	4.7µF	20%	50V
C6093	1-126-964-11	ELECT	10µF	20%	50V
C6094	1-126-948-11	ELECT	100µF	20%	35V
C6095	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6097	1-136-165-00	FILM	0.1µF	5%	50V
C6099	1-126-947-11	ELECT	47µF	20%	25V
C6101	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C6102	1-104-665-11	ELECT	100µF	20%	25V
C6103	1-126-947-11	ELECT	47µF	20%	25V
C6108	1-126-947-11	ELECT	47µF	20%	25V
C6110	1-115-745-51	ELECT	0.0039F	20%	10V
C6113	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6114	1-107-641-11	ELECT	220µF	20%	160V
C6115	1-136-165-00	FILM	0.1µF	5%	50V
C6117	1-115-745-51	ELECT	0.0039F	20%	10V
C6118	1-126-943-11	ELECT	2200µF	20%	25V
C6119	1-126-943-11	ELECT	2200µF	20%	25V
C6120	1-128-549-11	ELECT	3300µF	20%	35V
C6121	1-128-549-11	ELECT	3300µF	20%	35V
C6123	1-107-641-11	ELECT	220µF	20%	160V
C6124	1-128-549-11	ELECT	3300µF	20%	35V
C6125	1-128-549-11	ELECT	3300µF	20%	35V
C6128	1-128-549-11	ELECT	3300µF	20%	35V
C6129	1-128-549-11	ELECT	3300µF	20%	35V
C6130	1-115-467-11	CERAMIC CHIP	0.22µF	10%	10V
C6131	1-104-665-11	ELECT	100µF	20%	25V
C6132	1-104-665-11	ELECT	100µF	20%	25V
C6134	1-126-968-11	ELECT	100µF	20%	50V
C6135	1-126-968-11	ELECT	100µF	20%	50V
C6137	1-126-935-11	ELECT	470µF	20%	16V
C6139	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C6140	1-104-666-11	ELECT	220µF	20%	25V
C6145	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6146	1-126-964-11	ELECT	10µF	20%	50V
C6150	1-136-165-00	FILM	0.1µF	5%	50V
C6151	1-101-810-00	CERAMIC	100pF	5%	500V
C6152	1-101-810-00	CERAMIC	100pF	5%	500V
C6153	1-101-810-00	CERAMIC	100pF	5%	500V
C6154	1-101-810-00	CERAMIC	100pF	5%	500V
C6155	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6160	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6165	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6166	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6167	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6168	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6169	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6170	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6179	1-126-940-11	ELECT	330µF	20%	25V
C6183	1-126-935-11	ELECT	470µF	20%	16V
C6184	1-115-745-51	ELECT	0.0039F	20%	10V
C6185	1-128-547-11	ELECT	6800µF	20%	16V
C6186	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6189	1-126-947-11	ELECT	47µF	20%	25V
C6190	1-126-947-11	ELECT	47µF	20%	25V
C6191	1-126-963-11	ELECT	4.7µF	20%	50V
C6192	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6199	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		< CONNECTOR >			
CN6001	1-580-843-11	PIN, CONNECTOR (POWER)			
CN6101	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN6102	* 1-691-757-11	PIN, CONNECTOR (PC BOARD) 8P			

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REF.NO.	PART NO.	DESCRIPTION	REMARK
CN6103	1-695-915-11	TAB (CONTACT)	
CN6104 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN6106 *	1-766-177-11	PIN, CONNECTOR (PC BOARD) 9P	
		< DIODE >	
D6001 ⚠	8-719-018-79	DIODE D6SB60LF	
D6002 ⚠	8-719-055-18	DIODE ERA22-08TP3	
D6003	8-719-068-00	DIODE ERC04-06SE	
D6004	8-719-068-00	DIODE ERC04-06SE	
D6007	8-719-083-78	DIODE 10ERA60-TP	
D6011	8-719-083-78	DIODE 10ERA60-TP	
D6015 ⚠	8-719-077-76	DIODE D2SB60A-F04	
D6016	8-719-083-82	DIODE UDZS-TE17-12B	
D6017	8-719-063-70	DIODE D1NL20U	
D6048	8-719-063-70	DIODE D1NL20U	
D6049	8-719-063-70	DIODE D1NL20U	
D6050	8-719-404-50	DIODE MA111-TX	
D6051	8-719-404-50	DIODE MA111-TX	
D6061	8-719-110-53	DIODE RD20ES-B2	
D6062	8-719-110-53	DIODE RD20ES-B2	
D6104	8-719-031-78	DIODE S2L40F	
D6105	8-719-052-91	DIODE D4SBS4-F	
D6107	8-719-031-78	DIODE S2L40F	
D6108	8-719-510-09	DIODE D10SC6M	
D6111	8-719-404-50	DIODE MA111-TX	
D6112	8-719-404-50	DIODE MA111-TX	
D6113	8-719-404-50	DIODE MA111-TX	
D6114	8-719-072-30	DIODE D25SC6MRF04	
D6115	8-719-510-09	DIODE D10SC6M	
D6116	8-719-072-29	DIODE D25SC6MF04	
D6117	8-719-988-31	DIODE D10SC6MR	
D6121	8-719-083-67	DIODE UDZSTE-1720B	
D6122	8-719-404-50	DIODE MA111-TX	
D6123	8-719-404-50	DIODE MA111-TX	
D6124	8-719-404-50	DIODE MA111-TX	
D6125	8-719-404-50	DIODE MA111-TX	
D6126	8-719-069-55	DIODE UDZSTE-175.6B	
D6130	8-719-055-40	DIODE FCQ30A04	
D6131	8-719-404-50	DIODE MA111-TX	
D6132	8-719-404-50	DIODE MA111-TX	
D6133	8-719-056-84	DIODE UDZ-TE-17-7.5B	
D6143	8-719-404-50	DIODE MA111-TX	
D6144	8-719-404-50	DIODE MA111-TX	
D6183	8-719-510-09	DIODE D10SC6M	
		< FUSE >	
F6001 ⚠	1-576-048-11	FUSE, GLASS TUBE (10A/125V)	
F6103 ⚠	1-576-360-21	FUSE, MULTIPLE (4A/30V)	
F6104 ⚠	1-576-360-21	FUSE, MULTIPLE (4A/30V)	
		< FERRITEBEAD >	
FB6003	1-410-396-41	FERRITE 0.45µH	
FB6004	1-410-396-41	FERRITE 0.45µH	
FB6005	1-410-397-21	FERRITE 1.1µH	
FB6018	1-410-397-21	FERRITE 1.1µH	
FB6019	1-410-396-41	FERRITE 0.45µH	
FB6020	1-410-396-41	FERRITE 0.45µH	
FB6103	1-410-397-21	FERRITE 1.1µH	
FB6104	1-410-397-21	FERRITE 1.1µH	
FB6107	1-410-397-21	FERRITE 1.1µH	
FB6108	1-410-397-21	FERRITE 1.1µH	
FB6114	1-410-397-21	FERRITE 1.1µH	
FB6115	1-410-397-21	FERRITE 1.1µH	
		< FUSE HOLDER >	
FH6001	1-533-223-11	CLIP, FUSE	
FH6002	1-533-223-11	CLIP, FUSE	
		< IC >	
IC6001	8-759-670-30	IC MCZ3001D	
IC6002	8-759-670-30	IC MCZ3001D	
IC6101	8-749-012-13	IC DM-58	
IC6102	8-759-103-93	IC µPC393C	
IC6103	8-759-198-31	IC µPC1093J-1-T	
IC6104	8-759-198-31	IC µPC1093J-1-T	
IC6106	8-759-663-29	IC MM1476AF(TP)	
IC6107	8-759-198-31	IC µPC1093J-1-T	
		< COIL >	
L6001 ⚠	1-431-116-11	TRANSFORMER, LINE FILTER	
L6002 ⚠	1-431-116-11	TRANSFORMER, LINE FILTER	
L6003	1-406-977-21	INDUCTOR 100µH	
L6004	1-406-977-21	INDUCTOR 100µH	
L6102	1-406-973-11	INDUCTOR 22µH	
L6103	1-406-657-11	INDUCTOR 4.7µH	
L6106	1-412-525-31	INDUCTOR 10µH	
L6108	1-412-525-31	INDUCTOR 10µH	
L6109	1-412-525-31	INDUCTOR 10µH	
L6111	1-412-525-31	INDUCTOR 10µH	
L6112	1-412-525-31	INDUCTOR 10µH	
L6124	1-412-519-11	INDUCTOR 3.3µH	
		< PHOTO COUPLER >	
PH6001 ⚠	8-749-010-65	PHOTO COUPLER PC123F2	
PH6002 ⚠	8-749-010-65	PHOTO COUPLER PC123F2	
PH6003 ⚠	8-749-010-65	PHOTO COUPLER PC123F2	
PH6004 ⚠	8-749-010-65	PHOTO COUPLER PC123F2	
PH6005 ⚠	8-749-010-65	PHOTO COUPLER PC123F2	
		< IC LINK >	
PS6101 ⚠	1-533-596-31	LINK, IC (4A)	
PS6102 ⚠	1-533-596-31	LINK, IC (4A)	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		< TRANSISTOR >			
Q6001	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q6003	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q6004	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q6005	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q6006	8-729-052-32	TRANSISTOR IRFIB7N50A			
Q6007	8-729-052-32	TRANSISTOR IRFIB7N50A			
Q6008	8-729-052-29	TRANSISTOR 2SK2876-01MR-F1			
Q6009	8-729-052-29	TRANSISTOR 2SK2876-01MR-F1			
Q6010	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q6101	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q6104	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q6105	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q6110	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q6111	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q6115	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q6119	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q6120	8-729-922-39	TRANSISTOR 2SD2144S-V			
Q6121	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
		< RESISTOR >			
R6001	⚠ 1-219-776-91	CARBON	2.2M	10%	1/2W
R6002	⚠ 1-219-759-91	CARBON	1M	5%	1/2W
R6003	⚠ 1-260-131-91	CARBON	470K	5%	1/2W
R6004	⚠ 1-260-328-71	CARBON	1K	5%	1/2W
R6005	⚠ 1-216-829-91	RES-CHIP	4.7K	5%	1/16W
R6006	⚠ 1-260-131-91	CARBON	470K	5%	1/2W
R6007	1-249-417-11	CARBON	1K	5%	1/4W
R6008	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R6009	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R6010	⚠ 1-205-997-11	CEMENTED	2.2	5%	10W
R6013	1-215-481-00	METAL	330K	1%	1/4W
R6014	1-215-481-00	METAL	330K	1%	1/4W
R6015	1-215-481-00	METAL	330K	1%	1/4W
R6017	1-218-714-11	METAL CHIP	8.2K	0.5%	1/16W
R6018	1-216-837-11	RES-CHIP	22K	5%	1/16W
R6019	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6020	1-216-839-11	RES-CHIP	33K	5%	1/16W
R6021	1-216-837-11	RES-CHIP	22K	5%	1/16W
R6022	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6029	1-249-393-11	CARBON	10	5%	1/4W
R6031	1-249-393-11	CARBON	10	5%	1/4W
R6033	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6035	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6041	⚠ 1-220-778-11	FUSIBLE	0.1	10%	1/2W
R6042	1-216-843-11	RES-CHIP	68K	5%	1/16W
R6043	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6044	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6052	1-243-979-71	METAL OXIDE	0.1	5%	2W
R6053	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R6056	1-243-979-71	METAL OXIDE	0.1	5%	2W
R6057	1-249-389-11	CARBON	4.7	5%	1/4W
R6058	1-216-851-11	RES-CHIP	330K	5%	1/16W
R6059	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R6060	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R6062	1-216-845-11	RES-CHIP	100K	5%	1/16W
R6064	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R6065	1-260-134-11	CARBON	820K	5%	1/2W
R6067	1-216-841-11	RES-CHIP	47K	5%	1/16W
R6068	1-218-718-11	METAL CHIP	12K	0.5%	1/16W
R6070	1-218-675-11	METAL CHIP	200	0.5%	1/16W
R6071	1-216-817-11	RES-CHIP	470	5%	1/16W
R6072	1-216-864-11	SHORT	0		
R6073	1-249-377-11	CARBON	0.47	5%	1/4W
R6074	1-216-845-11	RES-CHIP	100K	5%	1/16W
R6079	1-216-864-11	SHORT	0		
R6080	1-216-817-11	RES-CHIP	470	5%	1/16W
R6081	1-249-393-11	CARBON	10	5%	1/4W
R6082	1-249-393-11	CARBON	10	5%	1/4W
R6083	1-216-363-00	METAL OXIDE	0.33	5%	2W
R6084	1-216-363-00	METAL OXIDE	0.33	5%	2W
R6088	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6089	1-249-393-11	CARBON	10	5%	1/4W
R6090	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6091	1-249-393-11	CARBON	10	5%	1/4W
R6092	1-218-715-11	METAL CHIP	9.1K	0.5%	1/16W
R6093	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R6094	1-218-656-11	METAL CHIP	33	0.5%	1/16W
R6095	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R6096	1-215-481-00	METAL	330K	1%	1/4W
R6097	1-215-481-00	METAL	330K	1%	1/4W
R6098	1-215-481-00	METAL	330K	1%	1/4W
R6099	⚠ 1-220-926-11	FUSIBLE	0.47	10%	1/2W
R6101	⚠ 1-218-708-91	METAL CHIP	4.7K	0.5%	1/16W
R6102	1-218-750-11	METAL CHIP	270K	0.5%	1/16W
R6103	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R6104	1-216-818-11	RES-CHIP	560	5%	1/16W
R6105	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6106	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6108	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6109	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6110	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6111	1-216-809-11	RES-CHIP	100	5%	1/16W
R6112	1-216-809-11	RES-CHIP	100	5%	1/16W
R6113	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6115	1-249-415-11	CARBON	680	5%	1/4W
R6116	1-216-841-11	RES-CHIP	47K	5%	1/16W
R6117	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6118	1-216-361-00	METAL OXIDE	0.22	5%	2W
R6119	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6120	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6121	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6125	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6126	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6127	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6131	1-216-789-11	RES-CHIP	2.2	5%	1/16W
R6132	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6133	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6134	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6135	1-249-425-11	CARBON	4.7K	5%	1/4W
R6136	1-249-425-11	CARBON	4.7K	5%	1/4W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R6142	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6143	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6147	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R6148	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6149	1-216-864-11	SHORT	0		
R6150	1-218-725-11	METAL CHIP	24K	0.5%	1/16W
R6152	1-218-702-11	METAL CHIP	2.7K	0.5%	1/16W
R6153	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6154	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6162	1-249-405-11	CARBON	100	5%	1/4W
R6163	1-218-714-11	METAL CHIP	8.2K	0.5%	1/16W
R6165	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R6166	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6167	1-216-864-11	SHORT	0		
R6168	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6169	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R6171	1-215-859-00	METAL OXIDE	22	5%	1W
R6174	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6175	1-219-393-11	METAL	0.05	10%	5W
R6177	1-216-809-11	RES-CHIP	100	5%	1/16W
R6178	1-216-841-11	RES-CHIP	47K	5%	1/16W
R6180	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6181	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6182	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6183	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6184	1-216-809-11	RES-CHIP	100	5%	1/16W
R6195	1-216-841-11	RES-CHIP	47K	5%	1/16W
R6196	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6197	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6198	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6199	1-216-833-11	RES-CHIP	10K	5%	1/16W
		< RELAY >			
RY6001	⚠ 1-755-388-11	RELAY (AC POWER)			
RY6002	⚠ 1-755-388-11	RELAY (AC POWER)			
		< TRANSFORMER >			
T6001	⚠ 1-429-807-12	TRANSFORMER, CONVERTER (PIT)			
T6002	⚠ 1-431-897-11	TRANSFORMER, CONVERTER (PIT)			
T6003	⚠ 1-437-455-11	TRANSFORMER ASSY, POWER (HST)			
T6004	⚠ 1-437-484-11	TRANSFORMER, CONVERTER (PIT)			
		< THERMISTOR >			
TH6001	1-803-586-11	THERMISTOR, NTC			
		< VARISTOR >			
VD6000	⚠ 1-801-268-51	VARISTOR TNR14V471K660			
VD6001	⚠ 1-801-268-51	VARISTOR TNR14V471K660			

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REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1332-186-A	CR BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C3701	1-104-570-11	CERAMIC	0.001µF	10%	2KV
C3702	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3705	1-107-662-11	ELECT	22µF	20%	250V
C3706	1-161-830-00	CERAMIC	0.0047µF		500V
C3707	1-101-003-00	CERAMIC	0.0047µF		50V
C3708	1-126-933-11	ELECT	100µF	20%	16V
C3710	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3711	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3712	1-126-933-11	ELECT	100µF	20%	16V
C3714	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C3715	1-101-003-00	CERAMIC	0.0047µF		50V
C3716	1-101-003-00	CERAMIC	0.0047µF		50V
C3717	1-164-156-11	CERAMIC CHIP	0.1µF		25V
		< CONNECTOR >			
CN3701	* 1-564-511-11	PLUG, CONNECTOR 8P			
CN3702	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN3703	* 1-564-508-11	PLUG, CONNECTOR 5P			
CN3705	1-695-915-11	TAB (CONTACT)			
CN3707	1-785-879-11	CONNECTOR, ONE TOUCH			
		< DIODE >			
D3701	8-719-901-83	DIODE 1SS83			
D3704	8-719-901-83	DIODE 1SS83			
D3709	8-719-404-50	DIODE MA111-TX			
		< IC >			
IC3701	8-759-680-01	IC TDA6120Q/N2/S1			
		< JACK >			
J3701	⚠ 1-251-182-21	SOCKET, PICTURE TUBE			
		< CHIP CONDUCTOR >			
JC3701	1-216-864-11	SHORT	0		
		< COIL >			
L3701	1-469-555-21	INDUCTOR	10µH		
L3703	1-469-555-21	INDUCTOR	10µH		
		< NEON LAMP >			
NL3701	1-517-778-21	LAMP, NEON			

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		< TRANSISTOR >			
Q3702	8-729-048-50	TRANSISTOR 2SK3018-T106			
		< RESISTOR >			
R3701	1-260-133-11	CARBON	680K	5%	1/2W
R3703	1-216-813-11	RES-CHIP	220	5%	1/16W
R3704	1-260-132-11	CARBON	560K	5%	1/2W
R3705	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3706	1-216-815-11	RES-CHIP	330	5%	1/16W
R3711	1-219-743-11	CARBON	100	5%	1/2W
R3714	1-218-703-11	METAL CHIP	3K	0.5%	1/16W
R3715	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R3716	1-260-328-11	CARBON	1K	5%	1/2W
R3720	1-215-925-11	METAL OXIDE	22K	5%	3W
R3721	1-260-087-11	CARBON	100	5%	1/2W
R3722	1-260-093-11	CARBON	330	5%	1/2W
R3726	1-218-748-11	METAL CHIP	220K	0.5%	1/16W
R3727	1-218-748-11	METAL CHIP	220K	0.5%	1/16W
R3729	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3731	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
		< SPARK GAP >			
SG3701	1-517-729-31	GAP, SPARK			
SG3702	1-519-422-11	GAP, SPARK			
SG3703	1-519-421-11	GAP, DISCHARGE			
		**********			
*	A-1332-187-A	CG BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C3801	1-107-662-11	ELECT	22µF	20%	250V
C3802	1-104-570-11	CERAMIC	0.001µF	10%	2KV
C3804	1-126-933-11	ELECT	100µF	20%	16V
C3805	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C3807	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3808	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3809	1-101-003-00	CERAMIC	0.0047µF		50V
C3811	1-126-933-11	ELECT	100µF	20%	16V
C3813	1-161-830-00	CERAMIC	0.0047µF		500V
C3814	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C3815	1-101-003-00	CERAMIC	0.0047µF		50V
C3816	1-101-003-00	CERAMIC	0.0047µF		50V
C3817	1-164-156-11	CERAMIC CHIP	0.1µF		25V
		< CONNECTOR >			
CN3801 *	1-564-511-11	PLUG, CONNECTOR 8P			
CN3802 *	1-564-511-11	PLUG, CONNECTOR 8P			
CN3803 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN3804 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN3805 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN3806 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN3807	1-695-915-11	TAB (CONTACT)			
CN3809	1-785-879-11	CONNECTOR, ONE TOUCH			
		< DIODE >			
D3801	8-719-901-83	DIODE 1SS83			
D3806	8-719-901-83	DIODE 1SS83			
D3809	8-719-404-50	DIODE MA111-TX			
		< IC >			
IC3801	8-759-680-01	IC TDA6120Q/N2/S1			
		< JACK >			
J3801	⚠ 1-251-182-21	SOCKET, PICTURE TUBE			
		< CHIP CONDUCTOR >			
JC3801	1-216-864-11	SHORT	0		
		< COIL >			
L3801	1-469-555-21	INDUCTOR	10µH		
L3803	1-469-555-21	INDUCTOR	10µH		
		< NEON LAMP >			
NL3801	1-517-778-21	LAMP, NEON			
		< TRANSISTOR >			
Q3802	8-729-048-50	TRANSISTOR 2SK3018-T106			
		< RESISTOR >			
R3801	1-260-133-11	CARBON	680K	5%	1/2W
R3802	1-260-132-11	CARBON	560K	5%	1/2W
R3804	1-216-813-11	RES-CHIP	220	5%	1/16W
R3806	1-216-814-11	RES-CHIP	270	5%	1/16W
R3807	1-218-690-11	METAL CHIP	820	0.5%	1/16W
R3810	1-219-743-11	CARBON	100	5%	1/2W
R3816	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R3817	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R3820	1-215-925-11	METAL OXIDE	22K	5%	3W
R3821	1-260-328-11	CARBON	1K	5%	1/2W
R3822	1-260-087-11	CARBON	100	5%	1/2W
R3823	1-260-093-11	CARBON	330	5%	1/2W
R3825	1-218-746-11	METAL CHIP	180K	0.5%	1/16W
R3826	1-218-746-11	METAL CHIP	180K	0.5%	1/16W
R3828	1-216-829-11	RES-CHIP	4.7K	5%	1/16W

CG CB V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3830	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
		< SPARK GAP >			
SG3801	1-517-729-31	GAP, SPARK			
SG3802	1-519-422-11	GAP, SPARK			
SG3803	1-519-421-11	GAP, DISCHARGE			
**********					
	* A-1332-188-A	CB BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C3901	1-104-570-11	CERAMIC	0.001µF	10%	2KV
C3902	1-101-003-00	CERAMIC	0.0047µF		50V
C3903	1-107-662-11	ELECT	22µF	20%	250V
C3904	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3905	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C3906	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3907	1-126-933-11	ELECT	100µF	20%	16V
C3909	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3910	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3911	1-126-933-11	ELECT	100µF	20%	16V
C3912	1-161-830-00	CERAMIC	0.0047µF		500V
C3914	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3915	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C3916	1-101-003-00	CERAMIC	0.0047µF		50V
C3917	1-101-003-00	CERAMIC	0.0047µF		50V
C3918	1-164-156-11	CERAMIC CHIP	0.1µF		25V
		< CONNECTOR >			
CN3901	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN3902	* 1-564-511-11	PLUG, CONNECTOR 8P			
CN3903	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN3906	1-695-915-11	TAB (CONTACT)			
CN3908	1-785-879-11	CONNECTOR, ONE TOUCH			
CN3909	* 1-564-507-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D3901	8-719-404-50	DIODE MA111-TX			
D3902	8-719-901-83	DIODE 1SS83			
D3909	8-719-901-83	DIODE 1SS83			
D3910	8-719-404-50	DIODE MA111-TX			
		< IC >			
IC3901	8-759-680-01	IC TDA6120Q/N2/S1			
		< JACK >			
J3901	⚠ 1-251-182-21	SOCKET, PICTURE TUBE			
		< CHIP CONDUCTOR >			
JC3901	1-216-864-11	SHORT	0		
		< COIL >			
L3901	1-469-555-21	INDUCTOR	10µH		
L3903	1-469-555-21	INDUCTOR	10µH		
		< NEON LAMP >			
NL3901	1-517-778-21	LAMP, NEON			
		< TRANSISTOR >			
Q3901	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q3902	8-729-048-50	TRANSISTOR 2SK3018-T106			
		< RESISTOR >			
R3901	1-216-813-11	RES-CHIP	220	5%	1/16W
R3902	1-216-817-11	RES-CHIP	470	5%	1/16W
R3903	1-260-133-11	CARBON	680K	5%	1/2W
R3904	1-260-132-11	CARBON	560K	5%	1/2W
R3905	1-219-743-11	CARBON	100	5%	1/2W
R3906	1-216-815-11	RES-CHIP	330	5%	1/16W
R3907	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R3908	1-216-809-11	RES-CHIP	100	5%	1/16W
R3909	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3913	1-218-722-11	METAL CHIP	18K	0.5%	1/16W
R3914	1-218-713-11	METAL CHIP	7.5K	0.5%	1/16W
R3916	1-218-690-11	METAL CHIP	820	0.5%	1/16W
R3917	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R3920	1-215-925-11	METAL OXIDE	22K	5%	3W
R3923	1-260-328-11	CARBON	1K	5%	1/2W
R3924	1-260-087-11	CARBON	100	5%	1/2W
R3925	1-260-093-11	CARBON	330	5%	1/2W
R3927	1-218-749-11	METAL CHIP	240K	0.5%	1/16W
R3928	1-218-749-11	METAL CHIP	240K	0.5%	1/16W
R3930	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3932	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3933	1-218-680-11	METAL CHIP	330	0.5%	1/16W
R3934	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R3935	1-249-393-11	CARBON	10	5%	1/4W
		< SPARK GAP >			
SG3901	1-517-729-31	GAP, SPARK			
SG3902	1-519-422-11	GAP, SPARK			
SG3903	1-519-421-11	GAP, DISCHARGE			
**********					
	* A-1342-612-A	V BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			

V D

REF.NO.	PART NO.	DESCRIPTION			REMARK
		< CAPACITOR >			
C9001	1-126-933-11	ELECT	100µF	20%	16V
C9002	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9003	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C9004	1-107-662-11	ELECT	22µF	20%	250V
C9006	1-161-830-00	CERAMIC	0.0047µF		500V
C9007	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9008	1-126-964-11	ELECT	10µF	20%	50V
C9009	1-107-636-11	ELECT	10µF	20%	160V
C9010	1-137-528-11	MYLAR	0.1µF	10%	250V
C9011	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C9012	1-137-528-11	MYLAR	0.1µF	10%	250V
C9013	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9014	1-117-450-11	MYLAR	0.47µF	10%	250V
		< CONNECTOR >			
CN9001 *	1-564-508-11	PLUG, CONNECTOR 5P			
CN9002 *	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P			
		< FERRITEBEAD >			
FB9001	1-469-869-21	FERRITE	0µH		
FB9002	1-469-869-21	FERRITE	0µH		
		< TRANSISTOR >			
Q9001	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q9002	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q9003	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q9004	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q9005	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q9006	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q9011	8-729-045-05	TRANSISTOR 2SA2005			
Q9012	8-729-045-04	TRANSISTOR 2SC5511			
		< RESISTOR >			
R9001	1-249-381-11	CARBON	1	5%	1/4W
R9002	1-216-820-11	RES-CHIP	820	5%	1/16W
R9003	1-216-819-11	RES-CHIP	680	5%	1/16W
R9004	1-216-835-11	RES-CHIP	15K	5%	1/16W
R9005	1-216-839-11	RES-CHIP	33K	5%	1/16W
R9006	1-216-811-11	RES-CHIP	150	5%	1/16W
R9008	1-216-817-11	RES-CHIP	470	5%	1/16W
R9009	1-216-813-11	RES-CHIP	220	5%	1/16W
R9010	1-216-813-11	RES-CHIP	220	5%	1/16W
R9011	1-249-391-11	CARBON	6.8	5%	1/4W
R9012	1-249-391-11	CARBON	6.8	5%	1/4W
R9013	1-249-391-11	CARBON	6.8	5%	1/4W
R9014	1-249-391-11	CARBON	6.8	5%	1/4W
R9017	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R9018	1-216-848-11	RES-CHIP	180K	5%	1/16W
R9019	1-216-848-11	RES-CHIP	180K	5%	1/16W
R9020	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R9021	1-216-805-11	RES-CHIP	47	5%	1/16W
R9022	1-216-805-11	RES-CHIP	47	5%	1/16W
R9025	1-215-890-11	METAL OXIDE	470	5%	2W
R9026	1-216-847-11	RES-CHIP	150K	5%	1/16W
R9027	1-216-847-11	RES-CHIP	150K	5%	1/16W
		**********			
	* A-1348-120-A	D BOARD, COMPLETE			
		**********			
	3-710-578-01	COVER, VOLUME, 6 MOLD			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	7-682-952-09	SCREW +PSW 3X16			
		< CAPACITOR >			
C8001	1-137-372-11	MYLAR	0.022µF	5%	50V
C8002	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8003	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8004	1-104-666-11	ELECT	220µF	20%	25V
C8005	1-126-942-61	ELECT	1000µF	20%	25V
C8006	1-126-942-61	ELECT	1000µF	20%	25V
C8007	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8008	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8009	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8010	1-136-177-00	FILM	1µF	5%	50V
C8011	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8012	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8013	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8014	1-104-665-11	ELECT	100µF	20%	25V
C8015	1-126-969-11	ELECT	220µF	20%	50V
C8016	1-104-665-11	ELECT	100µF	20%	25V
C8017	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C8018	1-126-964-11	ELECT	10µF	20%	50V
C8023	1-106-220-00	MYLAR	0.1µF	10%	100V
C8024	1-137-372-11	MYLAR	0.022µF	5%	50V
C8025	1-126-968-11	ELECT	100µF	20%	50V
C8026	1-126-968-11	ELECT	100µF	20%	50V
C8028	1-126-968-11	ELECT	100µF	20%	50V
C8029	1-126-968-11	ELECT	100µF	20%	50V
C8031	1-107-636-11	ELECT	10µF	20%	160V
C8032	1-126-968-11	ELECT	100µF	20%	50V
C8033	1-126-968-11	ELECT	100µF	20%	50V
C8036	1-126-968-11	ELECT	100µF	20%	50V
C8037	1-126-968-11	ELECT	100µF	20%	50V
C8040	1-115-349-51	CERAMIC	0.01µF		2KV
C8045	1-126-965-91	ELECT	22µF	20%	50V
C8046	1-126-965-91	ELECT	22µF	20%	50V
C8047	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8048	1-126-965-91	ELECT	22µF	20%	50V
C8049	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8050	1-126-965-91	ELECT	22µF	20%	50V
C8051	1-102-038-00	CERAMIC	0.001µF		500V
C8052	1-126-965-91	ELECT	22µF	20%	50V
C8053	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8054	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8055	1-164-156-11	CERAMIC CHIP	0.1µF		25V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C8056	1-107-652-11	ELECT	10µF	20%	250V
C8057	1-126-959-11	ELECT	0.47µF	20%	50V
C8058	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C8059	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C8060	1-104-665-11	ELECT	100µF	20%	25V
C8061	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8062	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8063	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8064	1-107-636-11	ELECT	10µF	20%	160V
C8065	1-106-383-00	MYLAR	0.047µF	10%	200V
C8066	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8067	1-104-665-11	ELECT	100µF	20%	25V
C8068	1-102-038-00	CERAMIC	0.001µF		500V
C8069	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8070	1-126-964-11	ELECT	10µF	20%	50V
C8071	1-126-964-11	ELECT	10µF	20%	50V
C8072	1-126-964-11	ELECT	10µF	20%	50V
C8073	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8074	1-104-665-11	ELECT	100µF	20%	25V
C8075	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8076	1-128-551-11	ELECT	22µF	20%	25V
C8077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8078	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C8079	1-126-964-11	ELECT	10µF	20%	50V
C8080	1-126-964-11	ELECT	10µF	20%	50V
C8081	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C8082	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C8083	1-130-495-00	MYLAR	0.1µF	5%	50V
C8084	1-130-992-11	FILM	0.022µF	5%	50V
C8085	1-162-924-11	CERAMIC CHIP	56pF	5%	50V
C8086	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8087	1-126-960-11	ELECT	1µF	20%	50V
C8088	1-126-964-11	ELECT	10µF	20%	50V
C8089	1-107-444-11	CERAMIC	100pF	10%	2KV
C8090	1-126-960-11	ELECT	1µF	20%	50V
C8091	1-104-665-11	ELECT	100µF	20%	25V
C8092	1-117-640-11	FILM	6800pF	3%	1.2KV
C8093	1-107-648-91	ELECT	100µF	20%	160V
C8094	1-104-665-11	ELECT	100µF	20%	25V
C8095	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8096	1-136-684-51	MYLAR	0.0022µF	10%	100V
C8097	1-162-131-11	CERAMIC	220pF	10%	2KV
C8098	1-162-131-11	CERAMIC	220pF	10%	2KV
C8099	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C8100	1-126-961-11	ELECT	2.2µF	20%	50V
C8102	1-102-038-00	CERAMIC	0.001µF		500V
C8103	1-126-964-11	ELECT	10µF	20%	50V
C8104	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C8105	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8106	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8107	1-136-187-11	MYLAR	0.047µF	10%	250V
C8108	1-126-964-11	ELECT	10µF	20%	50V
C8109	1-162-924-11	CERAMIC CHIP	56pF	5%	50V
C8110	1-126-960-11	ELECT	1µF	20%	50V
C8111	1-126-960-11	ELECT	1µF	20%	50V
C8112	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C8113	1-130-495-00	MYLAR	0.1µF	5%	50V
C8114	1-125-473-11	ELECT(BLOCK)	1000µF	20%	160V
C8115	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8116	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8117	1-102-038-00	CERAMIC	0.001µF		500V
C8118	1-136-189-00	MYLAR	0.1µF	10%	250V
C8119	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C8120	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8121	1-115-349-51	CERAMIC	0.01µF		2KV
C8122	1-126-934-11	ELECT	220µF	20%	16V
C8123	1-107-444-11	CERAMIC	100pF	10%	2KV
C8124	1-117-642-11	FILM	8200pF	3%	1.2KV
C8125	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8126	1-106-357-00	MYLAR	0.0039µF	99%	200V
C8127	1-126-942-61	ELECT	1000µF	20%	25V
C8129	1-137-150-11	MYLAR	0.01µF	5%	50V
C8131	1-128-582-11	ELECT	10µF	20%	100V
C8132	1-126-942-61	ELECT	1000µF	20%	25V
C8133	1-107-649-11	ELECT	2.2µF	20%	250V
C8135	1-109-961-11	FILM	0.75µF	5%	250V
C8136	1-130-495-00	MYLAR	0.1µF	5%	50V
C8137	1-126-942-61	ELECT	1000µF	20%	25V
C8138	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C8139	1-126-964-11	ELECT	10µF	20%	50V
C8142	1-117-664-11	FILM	0.27µF	5%	250V
C8143	1-126-960-11	ELECT	1µF	20%	50V
C8148	1-104-665-11	ELECT	100µF	20%	25V
C8150	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8153	1-126-960-11	ELECT	1µF	20%	50V

< CONNECTOR >

CN8002 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN8003 *	1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P	
CN8004 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN8005 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN8006 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN8007 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN8008 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN8009 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN8010 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN8011 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN8012 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN8013 *	1-766-177-11	PIN, CONNECTOR (PC BOARD) 9P	
CN8015 *	1-506-371-00	PIN, CONNECTOR 2P	
CN8016 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN8018 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN8019 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN8020 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN8021 *	1-506-371-00	PIN, CONNECTOR 2P	
CN8022 *	1-564-510-11	PLUG, CONNECTOR 7P	
CN8023 *	1-564-507-11	PLUG, CONNECTOR 4P	

< DIODE >

D8001	8-719-109-89	DIODE RD5.6ESB2

REF.NO.	PART NO.	DESCRIPTION	REMARK
D8002	8-719-110-53	DIODE RD20ES-B2	
D8003	8-719-924-13	DIODE MTZJ-T-77-22B	
D8004	8-719-908-03	DIODE GP08D	
D8005	8-719-991-33	DIODE 1SS133T-77	
D8006	8-719-991-33	DIODE 1SS133T-77	
D8007	8-719-991-33	DIODE 1SS133T-77	
D8008	8-719-991-33	DIODE 1SS133T-77	
D8009	8-719-991-33	DIODE 1SS133T-77	
D8010	8-719-991-33	DIODE 1SS133T-77	
D8011	8-719-991-33	DIODE 1SS133T-77	
D8012	8-719-991-33	DIODE 1SS133T-77	
D8013	8-719-109-85	DIODE RD5.1ESB2	
D8014	8-719-109-85	DIODE RD5.1ESB2	
D8015	8-719-991-33	DIODE 1SS133T-77	
D8016	8-719-991-33	DIODE 1SS133T-77	
D8019	8-719-991-33	DIODE 1SS133T-77	
D8020	8-719-991-33	DIODE 1SS133T-77	
D8021	8-719-061-21	DIODE FMQ-G5FMS	
D8022	8-719-991-33	DIODE 1SS133T-77	
D8023	8-719-991-33	DIODE 1SS133T-77	
D8024	8-719-110-41	DIODE RD15ES-B2	
D8025	8-719-991-33	DIODE 1SS133T-77	
D8026	8-719-109-89	DIODE RD5.6ESB2	
D8027	8-719-028-45	DIODE D2L20U	
D8028	8-719-110-41	DIODE RD15ES-B2	
D8029	8-719-028-45	DIODE D2L20U	
D8030	8-719-028-45	DIODE D2L20U	
D8031	8-719-110-49	DIODE RD18ES-B2	
D8032	8-719-302-43	DIODE EL1Z	
D8033	8-719-028-72	DIODE RGP02-17EL-6433	
D8034	6-500-004-01	DIODE ERD07-15L	
D8035	6-500-004-01	DIODE ERD07-15L	
D8036	8-719-110-41	DIODE RD15ES-B2	
D8037	8-719-028-45	DIODE D2L20U	
D8038	8-719-302-43	DIODE EL1Z	
D8039	8-719-028-72	DIODE RGP02-17EL-6433	
D8040	8-719-991-33	DIODE 1SS133T-77	
D8043	8-719-991-33	DIODE 1SS133T-77	
D8045	8-719-908-03	DIODE GP08D	
D8046	8-719-991-33	DIODE 1SS133T-77	
D8047	8-719-991-33	DIODE 1SS133T-77	
		< FERRITEBEAD >	
FB8001	1-410-397-21	FERRITE	1.1µH
FB8002	1-410-397-21	FERRITE	1.1µH
FB8003	1-414-229-11	FERRITE	0µH
FB8004	1-216-864-11	SHORT	0
FB8005	1-469-869-21	FERRITE	0µH
FB8006	1-469-869-21	FERRITE	0µH
FB8008	1-410-396-41	FERRITE	0.45µH
FB8009	1-410-396-41	FERRITE	0.45µH
FB8010	1-410-396-41	FERRITE	0.45µH
FB8011	1-410-396-41	FERRITE	0.45µH
FB8014	1-469-869-21	FERRITE	0µH
FB8015	1-469-869-21	FERRITE	0µH
FB8016	1-469-869-21	FERRITE	0µH
FB8017	1-469-869-21	FERRITE	0µH
FB8018	1-469-869-21	FERRITE	0µH
FB8019	1-410-397-21	FERRITE	1.1µH
FB8020	1-414-229-11	FERRITE	0µH
FB8021	1-410-397-21	FERRITE	1.1µH
FB8022	1-410-396-41	FERRITE	0.45µH
FB8023	1-410-396-41	FERRITE	0.45µH
FB8024	1-469-869-21	FERRITE	0µH
		< IC >	
IC8001	8-749-019-08	IC STK392-560	
IC8002	8-749-019-08	IC STK392-560	
IC8003	8-759-593-33	IC LA78045	
IC8004	8-759-595-88	IC AN77L12-TA	
IC8005	8-759-585-82	IC BA9759F-E2	
IC8006	8-759-700-07	IC NJM2903M	
IC8007	8-759-700-07	IC NJM2903M	
IC8008	8-759-585-82	IC BA9759F-E2	
IC8009	8-759-803-42	IC LA6500-FA	
IC8012	8-759-701-01	IC NJM2904M	
		< COIL >	
L8001	1-412-533-21	INDUCTOR	47µH
L8002	1-412-533-21	INDUCTOR	47µH
L8003	1-412-525-31	INDUCTOR	10µH
L8004	1-412-533-21	INDUCTOR	47µH
L8005	1-412-533-21	INDUCTOR	47µH
L8006	1-412-525-31	INDUCTOR	10µH
L8007	1-412-533-21	INDUCTOR	47µH
L8008	1-412-533-21	INDUCTOR	47µH
L8009	1-412-525-31	INDUCTOR	10µH
L8010	1-414-187-11	INDUCTOR	47µH
L8011	1-412-525-31	INDUCTOR	10µH
L8012	1-414-187-11	INDUCTOR	47µH
L8013	1-414-856-11	INDUCTOR	10µH
L8014	1-414-189-31	INDUCTOR	100µH
L8015	1-414-189-31	INDUCTOR	100µH
L8016	1-412-537-31	INDUCTOR	100µH
L8017	1-414-856-11	INDUCTOR	10µH
L8018	1-406-663-21	INDUCTOR	47µH
L8019	1-419-352-11	COIL, HORIZONTAL LINEARITY	
L8020	1-412-525-31	INDUCTOR	10µH
L8021	1-406-659-11	INDUCTOR	10µH
L8022	1-412-552-11	INDUCTOR	2.2mH
L8023	1-414-856-11	INDUCTOR	10µH
L8024	1-414-856-11	INDUCTOR	10µH
L8025	1-414-856-11	INDUCTOR	10µH
L8026	1-414-856-11	INDUCTOR	10µH
		< NEON LAMP >	
NL8001	1-517-778-21	LAMP, NEON	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION			REMARK
		< IC LINK >			
PS8001 ⚠	1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)			
PS8002 ⚠	1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)			
PS8003 ⚠	1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)			
PS8004 ⚠	1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)			
PS8005 ⚠	1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)			
PS8006 ⚠	1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)			
PS8007 ⚠	1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)			
		< TRANSISTOR >			
Q8001	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8002	8-729-046-80	TRANSISTOR 2SC4634LS-CB11			
Q8003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8004	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8005	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8007	8-729-046-80	TRANSISTOR 2SC4634LS-CB11			
Q8008	8-729-207-89	TRANSISTOR 2SA1358-Y			
Q8009	8-729-207-82	TRANSISTOR 2SC3421-Y			
Q8010	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8011	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8014	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8015	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8016	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8019	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8020	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8021	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8022	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8023	8-729-048-47	TRANSISTOR 2SC2688(5)-LK			
Q8024	8-729-056-50	TRANSISTOR 2SC5681-YB			
Q8027	8-729-050-13	TRANSISTOR 2SJ585LS-CC11			
Q8028	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8029	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8030	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8031	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8032	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8035	8-729-050-13	TRANSISTOR 2SJ585LS-CC11			
Q8036	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8037	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q8038	8-729-038-10	TRANSISTOR 1MB12-140-F153A			
Q8039	8-729-048-47	TRANSISTOR 2SC2688(5)-LK			
Q8101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
		< RESISTOR >			
R8001	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8002	1-216-809-11	RES-CHIP	100	5%	1/16W
R8003	1-216-809-11	RES-CHIP	100	5%	1/16W
R8004	1-216-809-11	RES-CHIP	100	5%	1/16W
R8005	1-215-875-11	METAL OXIDE	10K	5%	1W
R8007	1-216-809-11	RES-CHIP	100	5%	1/16W
R8008	1-216-809-11	RES-CHIP	100	5%	1/16W
R8009	1-216-809-11	RES-CHIP	100	5%	1/16W
R8010	1-260-131-11	CARBON	470K	5%	1/2W
R8011	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8012	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8013	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R8014	1-218-709-11	METAL CHIP	5.1K	0.5%	1/16W
R8015	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8016	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8017	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8018	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8019	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
R8020	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8021	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8022	1-216-839-11	RES-CHIP	33K	5%	1/16W
R8023	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8024	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8025	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8026	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8029	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8030	1-215-903-11	METAL OXIDE	68K	5%	2W
R8031	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8032	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8033	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8034	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8035	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R8036	1-214-800-11	METAL	2.2	1%	1/2W
R8037	1-215-903-11	METAL OXIDE	68K	5%	2W
R8038	1-216-809-11	RES-CHIP	100	5%	1/16W
R8039	1-214-800-11	METAL	2.2	1%	1/2W
R8040	1-215-913-11	METAL OXIDE	220	5%	3W
R8041	1-218-709-11	METAL CHIP	5.1K	0.5%	1/16W
R8042	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R8043	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R8044	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
R8045	1-214-808-11	METAL	4.7	1%	1/2W
R8046	1-214-808-11	METAL	4.7	1%	1/2W
R8047	1-215-857-71	METAL OXIDE	10	5%	1W
R8048	1-414-189-31	INDUCTOR	100µH		
R8049	1-414-189-31	INDUCTOR	100µH		
R8050	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8051	1-214-808-11	METAL	4.7	1%	1/2W
R8053	1-214-808-11	METAL	4.7	1%	1/2W
R8055	1-218-748-11	METAL CHIP	220K	0.5%	1/16W
R8056	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8057	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8058	1-216-809-11	RES-CHIP	100	5%	1/16W
R8059	1-214-808-11	METAL	4.7	1%	1/2W
R8060	1-214-808-11	METAL	4.7	1%	1/2W
R8061	1-216-390-11	METAL OXIDE	1.2	5%	3W
R8062	1-260-107-11	CARBON	4.7K	5%	1/2W
R8063	1-214-808-11	METAL	4.7	1%	1/2W
R8064	1-214-808-11	METAL	4.7	1%	1/2W
R8065	1-260-328-11	CARBON	1K	5%	1/2W
R8066	1-214-808-11	METAL	4.7	1%	1/2W
R8067	1-214-808-11	METAL	4.7	1%	1/2W
R8068	1-216-809-11	RES-CHIP	100	5%	1/16W
R8069	1-214-808-11	METAL	4.7	1%	1/2W
R8070	1-214-808-11	METAL	4.7	1%	1/2W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R8071	1-215-381-00	METAL	22	1%	1/4W
R8073	1-214-808-11	METAL	4.7	1%	1/2W
R8075	1-214-808-11	METAL	4.7	1%	1/2W
R8076	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8077	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8078	1-214-808-11	METAL	4.7	1%	1/2W
R8079	1-214-808-11	METAL	4.7	1%	1/2W
R8080	1-216-353-00	METAL OXIDE	2.2	5%	1W
R8081	1-214-808-11	METAL	4.7	1%	1/2W
R8082	1-214-808-11	METAL	4.7	1%	1/2W
R8083	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8084	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8085	1-214-808-11	METAL	4.7	1%	1/2W
R8086	1-214-808-11	METAL	4.7	1%	1/2W
R8087	1-249-385-11	CARBON	2.2	5%	1/4W
R8088	1-249-385-11	CARBON	2.2	5%	1/4W
R8089	1-214-808-11	METAL	4.7	1%	1/2W
R8090	1-214-808-11	METAL	4.7	1%	1/2W
R8091	1-214-808-11	METAL	4.7	1%	1/2W
R8092	1-214-808-11	METAL	4.7	1%	1/2W
R8093	1-214-808-11	METAL	4.7	1%	1/2W
R8094	1-214-808-11	METAL	4.7	1%	1/2W
R8095	1-216-801-11	RES-CHIP	22	5%	1/16W
R8096	1-216-801-11	RES-CHIP	22	5%	1/16W
R8097	1-214-808-11	METAL	4.7	1%	1/2W
R8098	1-214-808-11	METAL	4.7	1%	1/2W
R8099	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R8100	1-216-475-11	METAL OXIDE	120	5%	3W
R8101	1-216-475-11	METAL OXIDE	120	5%	3W
R8102	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8103	1-216-816-11	RES-CHIP	390	5%	1/16W
R8104	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R8105	1-214-808-11	METAL	4.7	1%	1/2W
R8106	1-214-808-11	METAL	4.7	1%	1/2W
R8107	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8108	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8109	1-216-814-11	RES-CHIP	270	5%	1/16W
R8110	1-249-427-11	CARBON	6.8K	5%	1/4W
R8111	1-216-819-11	RES-CHIP	680	5%	1/16W
R8112	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R8113	1-216-475-11	METAL OXIDE	120	5%	3W
R8114	1-216-475-11	METAL OXIDE	120	5%	3W
R8115	1-216-475-11	METAL OXIDE	120	5%	3W
R8116	1-216-475-11	METAL OXIDE	120	5%	3W
R8117	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8118	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8119	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8120	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8121	1-216-809-11	RES-CHIP	100	5%	1/16W
R8123	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8124	1-249-377-11	CARBON	0.47	5%	1/4W
R8125	1-216-816-11	RES-CHIP	390	5%	1/16W
R8126	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R8128	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8129	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8130	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8131	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8132	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8133	1-216-487-11	METAL OXIDE	12K	5%	3W
R8134	1-215-873-00	METAL OXIDE	4.7K	5%	1W
R8135	1-216-487-11	METAL OXIDE	12K	5%	3W
R8136	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8137	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R8138	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8139	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R8140	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8141	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R8142	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8143	1-218-734-11	METAL CHIP	56K	0.5%	1/16W
R8144	1-216-809-11	RES-CHIP	100	5%	1/16W
R8145	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R8146	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R8147	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R8148	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8149	1-215-905-11	METAL OXIDE	10	5%	3W
R8150	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R8151	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R8152	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R8153	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R8154	1-218-728-11	METAL CHIP	33K	0.5%	1/16W
R8155	1-215-469-00	METAL	100K	1%	1/4W
R8156	1-215-469-00	METAL	100K	1%	1/4W
R8157	1-218-738-11	METAL CHIP	82K	0.5%	1/16W
R8159	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8160	1-249-393-11	CARBON	10	5%	1/4W
R8161	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8163	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8164	1-218-734-11	METAL CHIP	56K	0.5%	1/16W
R8165	1-249-425-11	CARBON	4.7K	5%	1/4W
R8166	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R8167	1-414-189-31	INDUCTOR	100µH		
R8168	1-216-809-11	RES-CHIP	100	5%	1/16W
R8169	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8170	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R8171	1-216-809-11	RES-CHIP	100	5%	1/16W
R8172	1-249-405-11	CARBON	100	5%	1/4W
R8173	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8174	1-249-425-11	CARBON	4.7K	5%	1/4W
R8176	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R8178	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8179	1-414-189-31	INDUCTOR	100µH		
R8180	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8181	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8182	1-218-748-11	METAL CHIP	220K	0.5%	1/16W
R8183	1-218-748-11	METAL CHIP	220K	0.5%	1/16W
R8184	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8187	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8189	1-249-377-11	CARBON	0.47	5%	1/4W
R8190	1-215-431-00	METAL	2.7K	1%	1/4W
R8191	1-215-429-00	METAL	2.2K	1%	1/4W
R8192	1-215-449-00	METAL	15K	1%	1/4W
R8193	1-215-449-00	METAL	15K	1%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R8194	1-215-449-00	METAL	15K	1%	1/4W
R8195	1-215-449-00	METAL	15K	1%	1/4W
R8196	1-249-425-11	CARBON	4.7K	5%	1/4W
R8197	1-216-809-11	RES-CHIP	100	5%	1/16W
R8198	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8201	1-249-397-11	CARBON	22	5%	1/4W
R8202	1-260-092-11	CARBON	270	5%	1/2W
R8203	1-249-377-11	CARBON	0.47	5%	1/4W
R8205	1-249-377-11	CARBON	0.47	5%	1/4W
R8206	1-249-377-11	CARBON	0.47	5%	1/4W
R8208	1-260-288-11	CARBON	0.47	5%	1/2W
R8209	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8210	1-216-809-11	RES-CHIP	100	5%	1/16W
R8211	1-215-906-11	METAL OXIDE	15	5%	3W
R8212	1-215-907-11	METAL OXIDE	22	5%	3W
R8213	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8216	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8217	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8218	1-260-123-11	CARBON	100K	5%	1/2W
R8219	1-249-377-11	CARBON	0.47	5%	1/4W
R8220	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8223	1-218-748-11	METAL CHIP	220K	0.5%	1/16W
R8224	1-260-127-11	CARBON	220K	5%	1/2W
R8225	1-260-292-11	CARBON	1	5%	1/2W
R8228	1-260-314-11	CARBON	68	5%	1/2W
R8230	1-218-751-11	METAL CHIP	300K	0.5%	1/16W
		< TRANSFORMER >			
T8001	1-435-142-11	TRANSFORMER, FERRITE (DFT)			
T8002	1-437-400-11	TRANSFORMER, FERRITE (HDT)			
T8003	1-437-401-11	TRANSFORMER, FERRITE (HOT)			
T8004	1-437-399-11	TRANSFORMER, FERRITE (LOT)			
T8005	⚠ 1-453-285-31	TRANSFORMER ASSY, FLY BACK (NX-4006//X4P4)			
		< THERMISTOR >			
TH8001	1-800-193-00	THERMISTOR			
		< VARIABLE RESISTOR >			
⧓ VR8001	⚠ 1-225-628-91	RES, VAR, ADJ, CERMET	5K		
⧓ VR8002	⚠ 1-225-632-91	RES, VAR, ADJ, CERMET	100K		
		**********			
		* A-1372-983-A HC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1301	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		< CONNECTOR >			
CN1300	* 1-564-518-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D1300	8-719-069-55	DIODE UDZSTE-175.6B			
D1301	8-719-069-55	DIODE UDZSTE-175.6B			
		< IC >			
IC1300	8-742-129-00	IC SBX1971-51P			
		< RESISTOR >			
R1300	1-216-809-11	RES-CHIP	100	5%	1/16W
R1301	1-216-809-11	RES-CHIP	100	5%	1/16W
		**********			
		* A-1372-984-A HA BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CN1100	* 1-564-522-11	PLUG, CONNECTOR 7P			
CN1101	* 1-564-521-11	PLUG, CONNECTOR 6P			
		< RESISTOR >			
R1100	1-218-682-11	METAL CHIP	390	0.5%	1/16W
R1101	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R1102	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R1103	1-218-688-11	METAL CHIP	680	0.5%	1/16W
R1104	1-218-690-11	METAL CHIP	820	0.5%	1/16W
R1105	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R1106	1-218-696-11	METAL CHIP	1.5K	0.5%	1/16W
R1107	1-218-698-11	METAL CHIP	1.8K	0.5%	1/16W
R1108	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R1109	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R1110	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R1111	1-218-728-11	METAL CHIP	33K	0.5%	1/16W
		< SWITCH >			
S1100	1-572-198-11	SWITCH, KEYBOARD (VOLUM –)			
S1101	1-572-198-11	SWITCH, KEYBOARD (VOLUM +)			
S1102	1-572-198-11	SWITCH, KEYBOARD (CHANNEL –)			
S1103	1-572-198-11	SWITCH, KEYBOARD (CHANNEL +)			
S1104	1-572-198-11	SWITCH, KEYBOARD (TV/VIDEO)			
S1105	1-572-198-11	SWITCH, KEYBOARD (SELECT)			
S1106	1-572-198-11	SWITCH, KEYBOARD (→)			
S1107	1-572-198-11	SWITCH, KEYBOARD (↓)			
S1108	1-572-198-11	SWITCH, KEYBOARD (↑)			
S1109	1-572-198-11	SWITCH, KEYBOARD (←)			
S1110	1-572-198-11	SWITCH, KEYBOARD (MENU)			
S1111	1-572-198-11	SWITCH, KEYBOARD (i. LINK)			
S1112	1-572-198-11	SWITCH, KEYBOARD (FLASH FOCUS)			
		**********			

HB HD U

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1372-985-A	HB BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1200	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C1201	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1202	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C1203	1-126-960-11	ELECT	1µF	20%	50V
C1204	1-126-960-11	ELECT	1µF	20%	50V
		< CONNECTOR >			
CN1200 *	1-564-526-11	PLUG, CONNECTOR 11P			
		< JACK >			
J1200	1-565-929-11	TERMINAL BLOCK, S 3P (VIDEO2 INPUT)			
		< RESISTOR >			
R1200	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R1201	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R1202	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1203	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R1204	1-216-853-11	RES-CHIP	470K	5%	1/16W
R1205	1-216-853-11	RES-CHIP	470K	5%	1/16W
		< VARISTOR >			
VD1200	1-803-974-21	VARISTOR, CHIP			
VD1201	1-803-974-21	VARISTOR, CHIP			
VD1202	1-803-974-21	VARISTOR, CHIP			
VD1203	1-803-974-21	VARISTOR, CHIP			
VD1204	1-803-974-21	VARISTOR, CHIP			
VD1205	1-803-974-21	VARISTOR, CHIP			
	* A-1372-986-A	HD BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CN1350 *	1-564-521-11	PLUG, CONNECTOR 6P			
		< DIODE >			
D1350	8-719-064-11	DIODE SPR-325MVW (STANDBY/I. LINK)			
D1351	8-719-053-43	DIODE SLR-325VCT31 (TIMER)			
		< RESISTOR >			
R1350	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1351	1-216-815-11	RES-CHIP	330	5%	1/16W
		< SWITCH >			
S1350	1-571-032-11	SWITCH, PUSH (1 KEY) (POWER)			
	* A-1373-860-A	U BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C4001	1-126-960-11	ELECT	1µF	20%	50V
C4002	1-126-960-11	ELECT	1µF	20%	50V
C4003	1-126-960-11	ELECT	1µF	20%	50V
C4004	1-126-960-11	ELECT	1µF	20%	50V
C4005	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C4006	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C4007	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C4008	1-126-960-11	ELECT	1µF	20%	50V
C4009	1-126-960-11	ELECT	1µF	20%	50V
C4010	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C4011	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C4012	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C4013	1-126-960-11	ELECT	1µF	20%	50V
C4014	1-126-960-11	ELECT	1µF	20%	50V
C4015	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C4016	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C4017	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C4018	1-126-960-11	ELECT	1µF	20%	50V
C4019	1-126-960-11	ELECT	1µF	20%	50V
		< CONNECTOR >			
CN4001 *	1-793-923-11	CONNECTOR, DIN (PLUG) 64P			
		< JACK >			
J4001	1-774-358-11	JACK BLOCK, PIN (HD/DVD IN 5)			
J4002	1-774-358-11	JACK BLOCK, PIN (HD/DVD IN 6)			
J4003	1-750-515-11	TERMINAL BLOCK, S 3P (VIDEO IN 1)			
J4004	1-750-515-11	TERMINAL BLOCK, S 3P (VIDEO IN 3)			
J4005	1-750-515-11	TERMINAL BLOCK, S 3P (VIDEO IN 4)			
J4006	1-750-517-11	JACK BLOCK, PIN 3P (SELECT OUT)			
J4008	1-764-143-11	JACK (CONTROL S IN)			
J4009	1-764-143-11	JACK (CONTROL S OUT)			
		< RESISTOR >			
R4001	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4002	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4003	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4004	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4005	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4006	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4007	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4008	1-218-665-11	METAL CHIP	75	0.5%	1/16W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R4009	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4010	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4011	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4012	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4013	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4014	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4015	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4016	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4017	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4018	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4019	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4020	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4021	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4022	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4023	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4024	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4025	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R4026	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4027	1-216-853-11	RES-CHIP	470K	5%	1/16W
R4028	1-216-809-11	RES-CHIP	100	5%	1/16W
R4029	1-216-809-11	RES-CHIP	100	5%	1/16W

< VARISTOR >

VD4001	1-803-974-21	VARISTOR, CHIP	
VD4002	1-803-974-21	VARISTOR, CHIP	
VD4003	1-803-974-21	VARISTOR, CHIP	
VD4004	1-803-974-21	VARISTOR, CHIP	
VD4005	1-803-974-21	VARISTOR, CHIP	
VD4006	1-803-974-21	VARISTOR, CHIP	
VD4007	1-803-974-21	VARISTOR, CHIP	
VD4008	1-803-974-21	VARISTOR, CHIP	
VD4009	1-803-974-21	VARISTOR, CHIP	
VD4010	1-803-974-21	VARISTOR, CHIP	
VD4011	1-803-974-21	VARISTOR, CHIP	
VD4012	1-803-974-21	VARISTOR, CHIP	
VD4013	1-803-974-21	VARISTOR, CHIP	
VD4014	1-803-974-21	VARISTOR, CHIP	
VD4015	1-803-974-21	VARISTOR, CHIP	
VD4016	1-803-974-21	VARISTOR, CHIP	
VD4017	1-803-974-21	VARISTOR, CHIP	
VD4018	1-803-974-21	VARISTOR, CHIP	
VD4019	1-803-974-21	VARISTOR, CHIP	
VD4020	1-803-974-21	VARISTOR, CHIP	
VD4021	1-803-974-21	VARISTOR, CHIP	
VD4022	1-803-974-21	VARISTOR, CHIP	
VD4023	1-803-974-21	VARISTOR, CHIP	
VD4024	1-803-974-21	VARISTOR, CHIP	
VD4025	1-803-974-21	VARISTOR, CHIP	
VD4026	1-803-974-21	VARISTOR, CHIP	
VD4027	1-803-974-21	VARISTOR, CHIP	
VD4028	1-803-974-21	VARISTOR, CHIP	
VD4029	1-803-974-21	VARISTOR, CHIP	
VD4030	1-803-974-21	VARISTOR, CHIP	
VD4033	1-803-974-21	VARISTOR, CHIP	
VD4034	1-803-974-21	VARISTOR, CHIP	

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* A-1380-653-A K BOARD, COMPLETE

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4-382-854-11 SCREW (M3X10), P, SW (+)

< CAPACITOR >

C2101	1-137-372-11	MYLAR	0.022µF	5%	50V
C2102	1-137-372-11	MYLAR	0.022µF	5%	50V
C2103	1-136-165-00	FILM	0.1µF	5%	50V
C2104	1-136-357-11	MYLAR	680pF	5%	50V
C2105	1-136-165-00	FILM	0.1µF	5%	50V
C2106	1-136-357-11	MYLAR	680pF	5%	50V
C2107	1-136-165-00	FILM	0.1µF	5%	50V
C2108	1-136-165-00	FILM	0.1µF	5%	50V
C2109	1-136-165-00	FILM	0.1µF	5%	50V
C2112	1-126-965-91	ELECT	22µF	20%	50V
C2113	1-126-947-11	ELECT	47µF	20%	25V
C2114	1-137-368-11	MYLAR	0.0047µF	5%	50V
C2115	1-126-965-91	ELECT	22µF	20%	50V
C2116	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2117	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2118	1-126-933-11	ELECT	100µF	20%	16V
C2119	1-126-933-11	ELECT	100µF	20%	16V
C2120	1-126-947-11	ELECT	47µF	20%	25V
C2121	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2122	1-136-165-00	FILM	0.1µF	5%	50V
C2123	1-136-161-00	FILM	0.047µF	5%	50V
C2124	1-137-367-11	MYLAR	0.0033µF	5%	50V
C2125	1-136-357-11	MYLAR	680pF	5%	50V
C2126	1-137-150-11	MYLAR	0.01µF	5%	50V
C2127	1-137-372-11	MYLAR	0.022µF	5%	50V
C2128	1-137-372-11	MYLAR	0.022µF	5%	50V
C2129	1-137-150-11	MYLAR	0.01µF	5%	50V
C2130	1-137-367-11	MYLAR	0.0033µF	5%	50V
C2131	1-137-367-11	MYLAR	0.0033µF	5%	50V
C2132	1-136-357-11	MYLAR	680pF	5%	50V
C2133	1-137-367-11	MYLAR	0.0033µF	5%	50V
C2134	1-136-177-00	FILM	1µF	5%	50V
C2135	1-137-437-11	MYLAR	0.0056µF	5%	50V
C2136	1-136-495-11	FILM	0.068µF	5%	50V
C2137	1-136-175-00	FILM	0.68µF	5%	50V
C2138	1-126-964-11	ELECT	10µF	20%	50V
C2139	1-136-165-00	FILM	0.1µF	5%	50V
C2140	1-136-165-00	FILM	0.1µF	5%	50V
C2141	1-126-964-11	ELECT	10µF	20%	50V
C2142	1-136-165-00	FILM	0.1µF	5%	50V
C2143	1-136-165-00	FILM	0.1µF	5%	50V
C2144	1-136-177-00	FILM	1µF	5%	50V
C2145	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2146	1-126-934-11	ELECT	220µF	20%	16V
C2147	1-136-169-00	FILM	0.22µF	5%	50V
C2148	1-136-169-00	FILM	0.22µF	5%	50V
C2149	1-126-963-11	ELECT	4.7µF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C2150	1-126-963-11	ELECT	4.7µF	20%	50V
C2151	1-136-169-00	FILM	0.22µF	5%	50V
C2152	1-136-169-00	FILM	0.22µF	5%	50V
C2153	1-136-165-00	FILM	0.1µF	5%	50V
C2154	1-136-161-00	FILM	0.047µF	5%	50V
C2155	1-136-161-00	FILM	0.047µF	5%	50V
C2156	1-136-165-00	FILM	0.1µF	5%	50V
C2157	1-136-165-00	FILM	0.1µF	5%	50V
C2158	1-126-965-91	ELECT	22µF	20%	50V
C2159	1-126-941-11	ELECT	470µF	20%	25V
C2160	1-126-947-11	ELECT	47µF	20%	25V
C2161	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2162	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2163	1-126-947-11	ELECT	47µF	20%	25V
C2164	1-126-947-11	ELECT	47µF	20%	25V
C2165	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2166	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2167	1-126-947-11	ELECT	47µF	20%	25V
C2168	1-126-947-11	ELECT	47µF	20%	25V
C2169	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2170	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2171	1-126-947-11	ELECT	47µF	20%	25V
C2172	1-128-549-11	ELECT	3300µF	20%	35V
C2173	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2174	1-128-549-11	ELECT	3300µF	20%	35V
C2175	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2176	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2177	1-136-177-00	FILM	1µF	5%	50V
C2178	1-126-964-11	ELECT	10µF	20%	50V
C2179	1-126-964-11	ELECT	10µF	20%	50V
C2180	1-126-947-11	ELECT	47µF	20%	25V
C2181	1-126-947-11	ELECT	47µF	20%	25V
C2182	1-137-367-11	MYLAR	0.0033µF	5%	50V
C2183	1-136-161-00	FILM	0.047µF	5%	50V
C2190	1-126-964-11	ELECT	10µF	20%	50V
C2191	1-126-947-11	ELECT	47µF	20%	25V
C2192	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2193	1-126-964-11	ELECT	10µF	20%	50V
C2194	1-126-964-11	ELECT	10µF	20%	50V
C2195	1-126-964-11	ELECT	10µF	20%	50V
C2196	1-126-964-11	ELECT	10µF	20%	50V
C2197	1-136-177-00	FILM	1µF	5%	50V
C2198	1-136-177-00	FILM	1µF	5%	50V
C2199	1-126-964-11	ELECT	10µF	20%	50V
C2201	1-136-177-00	FILM	1µF	5%	50V
C2205	1-136-177-00	FILM	1µF	5%	50V
C2207	1-136-177-00	FILM	1µF	5%	50V
C2209	1-136-177-00	FILM	1µF	5%	50V
C2211	1-136-177-00	FILM	1µF	5%	50V
C2213	1-136-177-00	FILM	1µF	5%	50V
C2301	1-126-965-91	ELECT	22µF	20%	50V
C2302	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2303	1-126-947-11	ELECT	47µF	20%	25V
C2304	1-137-366-11	MYLAR	0.0022µF	5%	50V
C2305	1-137-366-11	MYLAR	0.0022µF	5%	50V
C2306	1-126-964-11	ELECT	10µF	20%	50V
C2307	1-126-964-11	ELECT	10µF	20%	50V
C2308	1-126-964-11	ELECT	10µF	20%	50V
C2309	1-126-964-11	ELECT	10µF	20%	50V
C2310	1-136-169-00	FILM	0.22µF	5%	50V
C2311	1-136-165-00	FILM	0.1µF	5%	50V
C2312	1-136-165-00	FILM	0.1µF	5%	50V
C2313	1-136-169-00	FILM	0.22µF	5%	50V
C2314	1-126-965-91	ELECT	22µF	20%	50V
C2315	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2316	1-126-947-11	ELECT	47µF	20%	25V
C2317	1-137-366-11	MYLAR	0.0022µF	5%	50V
C2318	1-137-366-11	MYLAR	0.0022µF	5%	50V
C2319	1-126-964-11	ELECT	10µF	20%	50V
C2320	1-126-964-11	ELECT	10µF	20%	50V
C2321	1-126-964-11	ELECT	10µF	20%	50V
C2322	1-126-964-11	ELECT	10µF	20%	50V
C2323	1-136-165-00	FILM	0.1µF	5%	50V
C2324	1-136-165-00	FILM	0.1µF	5%	50V
C2325	1-136-165-00	FILM	0.1µF	5%	50V
C2326	1-136-165-00	FILM	0.1µF	5%	50V
C2327	1-126-965-91	ELECT	22µF	20%	50V
C2328	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2329	1-126-947-11	ELECT	47µF	20%	25V
C2330	1-137-366-11	MYLAR	0.0022µF	5%	50V
C2331	1-126-947-11	ELECT	47µF	20%	25V
C2332	1-126-964-11	ELECT	10µF	20%	50V
C2333	1-126-947-11	ELECT	47µF	20%	25V
C2334	1-126-964-11	ELECT	10µF	20%	50V
C2335	1-126-964-11	ELECT	10µF	20%	50V
C2336	1-136-165-00	FILM	0.1µF	5%	50V
C2337	1-136-165-00	FILM	0.1µF	5%	50V
C2338	1-136-165-00	FILM	0.1µF	5%	50V
C2339	1-136-165-00	FILM	0.1µF	5%	50V
C2340	1-126-964-11	ELECT	10µF	20%	50V
C2341	1-126-964-11	ELECT	10µF	20%	50V
C2342	1-136-165-00	FILM	0.1µF	5%	50V
C2343	1-137-367-11	MYLAR	0.0033µF	5%	50V
C2344	1-136-161-00	FILM	0.047µF	5%	50V
C2345	1-126-947-11	ELECT	47µF	20%	25V
C2346	1-126-964-11	ELECT	10µF	20%	50V
C2347	1-126-947-11	ELECT	47µF	20%	25V
C2348	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2350	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2352	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2354	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2356	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2357	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2358	1-162-970-11	CERAMIC CHIP	0.01µF	10%	16V
C2360	1-126-947-11	ELECT	47µF	20%	25V
C2621	1-126-960-11	ELECT	1µF	20%	50V
C2622	1-136-165-00	FILM	0.1µF	5%	50V
C2623	1-126-960-11	ELECT	1µF	20%	50V
C2624	1-126-960-11	ELECT	1µF	20%	50V
C2625	1-126-947-11	ELECT	47µF	20%	25V
C2626	1-126-947-11	ELECT	47µF	20%	25V
C2627	1-136-165-00	FILM	0.1µF	5%	50V

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C2628	1-136-165-00	FILM	0.1µF	5%	50V	
C2629	1-136-165-00	FILM	0.1µF	5%	50V	
C2630	1-136-165-00	FILM	0.1µF	5%	50V	
C2631	1-104-665-11	ELECT	100µF	20%	25V	
C2632	1-104-665-11	ELECT	100µF	20%	25V	
C2633	1-126-960-11	ELECT	1µF	20%	50V	
C2634	1-126-963-11	ELECT	4.7µF	20%	50V	
C2635	1-126-960-11	ELECT	1µF	20%	50V	
C2636	1-126-960-11	ELECT	1µF	20%	50V	
C2637	1-126-947-11	ELECT	47µF	20%	25V	
C2638	1-126-947-11	ELECT	47µF	20%	25V	
C2639	1-136-165-00	FILM	0.1µF	5%	50V	
C2640	1-136-165-00	FILM	0.1µF	5%	50V	
C2641	1-136-165-00	FILM	0.1µF	5%	50V	
C2642	1-136-165-00	FILM	0.1µF	5%	50V	
C2643	1-126-960-11	ELECT	1µF	20%	50V	
C2644	1-136-165-00	FILM	0.1µF	5%	50V	
C2645	1-136-165-00	FILM	0.1µF	5%	50V	
C2646	1-136-165-00	FILM	0.1µF	5%	50V	
C2647	1-126-947-11	ELECT	47µF	20%	25V	
C2648	1-126-960-11	ELECT	1µF	20%	50V	
C2649	1-126-963-11	ELECT	4.7µF	20%	50V	
C2650	1-126-964-11	ELECT	10µF	20%	50V	
C2651	1-126-964-11	ELECT	10µF	20%	50V	
C2652	1-126-947-11	ELECT	47µF	20%	25V	
C2654	1-126-964-11	ELECT	10µF	20%	50V	
C2655	1-126-960-11	ELECT	1µF	20%	50V	
C2656	1-126-964-11	ELECT	10µF	20%	50V	
C2657	1-126-964-11	ELECT	10µF	20%	50V	
C2658	1-126-960-11	ELECT	1µF	20%	50V	
C2659	1-126-964-11	ELECT	10µF	20%	50V	

< CONNECTOR >

CN2101 *	1-564-511-11	PLUG, CONNECTOR 8P	
CN2102 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN2103 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN2104 *	1-691-757-11	PIN, CONNECTOR (PC BOARD) 8P	
CN2602 *	1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P	
CN2603 *	1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P	

< DIODE >

D2102	8-719-404-50	DIODE MA111-TX	
D2103	8-719-404-50	DIODE MA111-TX	
D2104	8-719-404-50	DIODE MA111-TX	
D2105	8-719-404-50	DIODE MA111-TX	
D2106	8-719-404-50	DIODE MA111-TX	
D2107	8-719-404-50	DIODE MA111-TX	
D2108	8-719-404-50	DIODE MA111-TX	
D2109	8-719-404-50	DIODE MA111-TX	
D2110	8-719-404-50	DIODE MA111-TX	
D2111	8-719-404-50	DIODE MA111-TX	
D2113	8-719-404-50	DIODE MA111-TX	
D2307	8-719-404-50	DIODE MA111-TX	
D2308	8-719-404-50	DIODE MA111-TX	
D2309	8-719-404-50	DIODE MA111-TX	
D2601	8-719-404-50	DIODE MA111-TX	
D2602	8-719-083-85	DIODE UDZS-TE17-22B	
D2603	8-719-083-85	DIODE UDZS-TE17-22B	
D2604	8-719-083-85	DIODE UDZS-TE17-22B	
D2605	8-719-083-85	DIODE UDZS-TE17-22B	
D2606	8-719-083-85	DIODE UDZS-TE17-22B	
D2607	8-719-083-85	DIODE UDZS-TE17-22B	
D2613	8-719-404-50	DIODE MA111-TX	
D2614	8-719-083-85	DIODE UDZS-TE17-22B	
D2615	8-719-083-85	DIODE UDZS-TE17-22B	
D2616	8-719-083-85	DIODE UDZS-TE17-22B	
D2617	8-719-083-85	DIODE UDZS-TE17-22B	
D2618	8-719-404-50	DIODE MA111-TX	
D2619	8-719-083-85	DIODE UDZS-TE17-22B	
D2620	8-719-083-85	DIODE UDZS-TE17-22B	
D2622	8-719-977-28	DIODE DTZ10B	
D2623	8-719-977-28	DIODE DTZ10B	
D2624	8-719-977-28	DIODE DTZ10B	
D2625	8-719-977-28	DIODE DTZ10B	
D2626	8-719-977-28	DIODE DTZ10B	
D2627	8-719-977-28	DIODE DTZ10B	
D2628	8-719-977-28	DIODE DTZ10B	
D2629	8-719-977-28	DIODE DTZ10B	
D2630	8-719-977-28	DIODE DTZ10B	
D2631	8-719-977-28	DIODE DTZ10B	

< IC >

IC2101	6-700-393-01	IC NJW1106FC2	
IC2102	8-759-231-53	IC TA7805S	
IC2103	8-759-098-24	IC PQ30RV11	
IC2104	8-759-231-58	IC TA7812S	
IC2107	8-759-100-96	IC µPC4558G2	
IC2108	8-759-100-96	IC µPC4558G2	
IC2301	8-759-544-72	IC TDA7312	
IC2302	8-759-544-72	IC TDA7312	
IC2303	8-759-544-72	IC TDA7312	
IC2304	8-759-100-96	IC µPC4558G2	
IC2305	8-759-100-96	IC µPC4558G2	
IC2601	8-759-190-89	IC TDA7265	
IC2602	8-759-190-89	IC TDA7265	
IC2603	8-759-072-99	IC TDA2052	
IC2605	8-759-100-96	IC µPC4558G2	

< JACK >

J2601	1-785-083-21	JACK BLOCK, PIN 2P	(AUDIO OUT L FIX/VAR)
J2602	1-793-446-11	JACK, PIN 1P (SUB WOOFER OUT)	
J2603	1-785-083-11	JACK BLOCK, PIN 2P	(AUDIO OUT R FIX/VAR)

< TRANSISTOR >

Q2101	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q2102	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
Q2103	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q2104	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2105	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q2606	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2607	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2608	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2609	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2610	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q2611	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2612	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2613	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q2801	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2802	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2803	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2804	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2805	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2806	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2807	8-729-422-27	TRANSISTOR 2SD601A-Q			
	< RESISTOR >				
R2101	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2102	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2103	1-218-713-11	METAL CHIP	7.5K	0.5%	1/16W
R2104	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2105	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2106	1-218-713-11	METAL CHIP	7.5K	0.5%	1/16W
R2109	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R2110	1-216-845-11	RES-CHIP	100K	5%	1/16W
R2111	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2112	1-216-857-11	RES-CHIP	1M	5%	1/16W
R2113	1-216-836-11	RES-CHIP	18K	5%	1/16W
R2114	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2115	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2116	1-218-713-11	METAL CHIP	7.5K	0.5%	1/16W
R2117	1-218-713-11	METAL CHIP	7.5K	0.5%	1/16W
R2118	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2119	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2120	1-218-725-11	METAL CHIP	24K	0.5%	1/16W
R2121	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2122	1-216-851-11	RES-CHIP	330K	5%	1/16W
R2123	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2124	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2125	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2126	1-216-845-11	RES-CHIP	100K	5%	1/16W
R2127	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2128	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2129	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2133	1-216-477-11	METAL OXIDE	270	5%	3W
R2134	1-216-475-11	METAL OXIDE	120	5%	3W
R2135	1-216-475-11	METAL OXIDE	120	5%	3W
R2136	1-216-864-11	SHORT	0		
R2138	1-216-809-11	RES-CHIP	100	5%	1/16W
R2139	1-216-809-11	RES-CHIP	100	5%	1/16W
R2142	1-216-864-11	SHORT	0		
R2144	1-216-864-11	SHORT	0		
R2146	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2147	1-216-809-11	RES-CHIP	100	5%	1/16W
R2148	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R2149	1-216-851-11	RES-CHIP	330K	5%	1/16W
R2150	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2151	1-218-682-11	METAL CHIP	390	0.5%	1/16W
R2152	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R2153	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R2154	1-216-836-11	RES-CHIP	18K	5%	1/16W
R2155	1-216-836-11	RES-CHIP	18K	5%	1/16W
R2156	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2157	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2158	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2159	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2160	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2161	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2162	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2163	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2164	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2165	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2166	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2167	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2168	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2169	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2170	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2171	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2182	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2183	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2184	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2185	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2186	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2187	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2188	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2189	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2190	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2191	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2192	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2193	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2224	1-216-864-11	SHORT	0		
R2226	1-216-864-11	SHORT	0		
R2228	1-216-864-11	SHORT	0		
R2230	1-216-864-11	SHORT	0		
R2232	1-216-864-11	SHORT	0		
R2234	1-216-864-11	SHORT	0		
R2301	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R2302	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R2303	1-216-809-11	RES-CHIP	100	5%	1/16W
R2304	1-216-809-11	RES-CHIP	100	5%	1/16W
R2305	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R2306	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R2307	1-216-809-11	RES-CHIP	100	5%	1/16W
R2308	1-216-809-11	RES-CHIP	100	5%	1/16W
R2309	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R2310	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R2311	1-216-809-11	RES-CHIP	100	5%	1/16W
R2312	1-216-809-11	RES-CHIP	100	5%	1/16W

K

REF.NO.	PART NO.	DESCRIPTION			REMARK
R2313	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2314	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2315	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2316	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2317	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2318	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2319	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2320	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2321	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2322	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2323	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2601	1-216-801-11	RES-CHIP	22	5%	1/16W
R2602	1-216-801-11	RES-CHIP	22	5%	1/16W
R2604	1-216-815-11	RES-CHIP	330	5%	1/16W
R2605	1-216-842-11	RES-CHIP	56K	5%	1/16W
R2606	1-216-815-11	RES-CHIP	330	5%	1/16W
R2607	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2608	1-216-845-11	RES-CHIP	100K	5%	1/16W
R2609	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2610	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2611	1-216-839-11	RES-CHIP	33K	5%	1/16W
R2612	1-249-389-11	CARBON	4.7	5%	1/4W
R2613	1-249-389-11	CARBON	4.7	5%	1/4W
R2614	1-216-817-11	RES-CHIP	470	5%	1/16W
R2615	1-216-817-11	RES-CHIP	470	5%	1/16W
R2616	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2617	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2618	1-216-817-11	RES-CHIP	470	5%	1/16W
R2619	1-216-817-11	RES-CHIP	470	5%	1/16W
R2620	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2621	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2622	1-216-817-11	RES-CHIP	470	5%	1/16W
R2623	1-216-817-11	RES-CHIP	470	5%	1/16W
R2626	1-216-817-11	RES-CHIP	470	5%	1/16W
R2632	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2633	1-216-845-11	RES-CHIP	100K	5%	1/16W
R2634	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2635	1-216-835-11	RES-CHIP	15K	5%	1/16W
R2636	1-216-839-11	RES-CHIP	33K	5%	1/16W
R2637	1-216-809-11	RES-CHIP	100	5%	1/16W
R2638	1-216-809-11	RES-CHIP	100	5%	1/16W
R2640	1-216-817-11	RES-CHIP	470	5%	1/16W
R2641	1-216-817-11	RES-CHIP	470	5%	1/16W
R2642	1-218-725-11	METAL CHIP	24K	0.5%	1/16W
R2643	1-218-725-11	METAL CHIP	24K	0.5%	1/16W
R2645	1-249-389-11	CARBON	4.7	5%	1/4W
R2646	1-249-389-11	CARBON	4.7	5%	1/4W
R2647	1-216-838-11	RES-CHIP	27K	5%	1/16W
R2648	1-216-838-11	RES-CHIP	27K	5%	1/16W
R2649	1-216-834-11	RES-CHIP	12K	5%	1/16W
R2650	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2651	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2652	1-216-809-11	RES-CHIP	100	5%	1/16W
R2653	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2654	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2655	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2656	1-216-838-11	RES-CHIP	27K	5%	1/16W
R2657	1-216-838-11	RES-CHIP	27K	5%	1/16W
R2659	1-216-842-11	RES-CHIP	56K	5%	1/16W
R2660	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2662	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2663	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2664	1-216-801-11	RES-CHIP	22	5%	1/16W
R2665	1-216-839-11	RES-CHIP	33K	5%	1/16W
R2666	1-216-815-11	RES-CHIP	330	5%	1/16W
R2667	1-216-839-11	RES-CHIP	33K	5%	1/16W
R2668	1-216-842-11	RES-CHIP	56K	5%	1/16W
R2669	1-249-389-11	CARBON	4.7	5%	1/4W
R2670	1-216-838-11	RES-CHIP	27K	5%	1/16W
R2671	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2672	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R2673	1-216-864-11	SHORT	0		
R2674	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R2675	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2676	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2677	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2678	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2679	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2680	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2681	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2682	1-216-834-11	RES-CHIP	12K	5%	1/16W
R2683	1-216-834-11	RES-CHIP	12K	5%	1/16W
R2684	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2685	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2686	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2687	1-216-817-11	RES-CHIP	470	5%	1/16W
R2688	1-216-843-11	RES-CHIP	68K	5%	1/16W
R2689	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2801	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2802	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2803	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2804	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2805	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2806	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2807	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2808	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2809	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2810	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2811	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2812	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2813	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2814	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2901	1-216-817-11	RES-CHIP	470	5%	1/16W
R2902	1-216-817-11	RES-CHIP	470	5%	1/16W

< TERMINAL BOARD >

TB2601	1-694-442-11	TERMINAL, PUSH (REAR SPEAKER OUT)

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		< CRYSTAL >	
X2101	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
**********			
	* A-1391-148-A	S BOARD, COMPLETE	
		**********	
		< CONNECTOR >	
CN3001	* 1-564-506-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D3001	8-719-109-89	DIODE RD5.6ESB2	
		< SWITCH >	
S3002	1-756-063-21	BATTERY, SOLAR	
**********			
		Q-BOX ASSEMBLY	
		**********	
	T-9986-079-1	Q-BOX, COMPLETE (KDP-57)	
	T-9986-079-2	Q-BOX, COMPLETE (KDP-65)	
**********			
		MISCELLANEOUS	
		**********	
	⚠ 1-223-925-31	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
	⚠ 1-451-535-11	COIL ASSY, VM	
	⚠ 1-451-537-11	DEFLECTION YOKE	
	⚠ 1-453-285-31	TRANSFORMER ASSY, FLYBACK (NX-4006//X4P)	
	1-500-603-11	CLAMP, FERRITE	
	1-529-830-12	SPEAKER (10CM)	
	1-529-831-11	SPEAKER (16CM)	
	1-529-832-11	SPEAKER (10CM)	
	1-543-653-21	CORE ASSY, BEAD (DIVISION TYPE)	
	1-543-982-11	CORE, FERRITE	
	* 1-556-945-21	CABLE, P-P	
	* 1-557-056-31	CABLE, P-P	
	1-757-970-11	CORD WITH CONNECTOR (F-TYPE)	
	⚠ 1-783-595-11	CORD, NOISE FILTER WITH POWER	
	1-786-183-11	SWITCH, ANTENNA	
	⚠ 8-733-620-05	PICTURE TUBE 07MVC21 (G)-L (KDP-57)	
	⚠ 8-733-624-05	PICTURE TUBE 07MVC41 (B)-L (KDP-57)	
	⚠ 8-733-625-05	PICTURE TUBE 07MVC41 (R)-L (KDP-57)	
	⚠ 8-733-626-05	PICTURE TUBE 07MVC5 (G)-L (KDP-65)	
	⚠ 8-733-627-05	PICTURE TUBE 07MVC5 (B)-L (KDP-65)	
	⚠ 8-733-628-05	PICTURE TUBE 07MVC5 (R)-L (KDP-65)	
	⚠ 8-598-955-31	BLOCK ASSY, HIGH-VOLTAGE (HVB-1031)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	4-084-917-11	MANUAL, INSTRUCTION	
	* 4-042-463-01	SHEET, PROTECTION	
	* 4-070-327-01	BAG, PROTECTION (KDP-65)	
	* 4-076-420-01	BAG, PROTECTION (KDP-57)	
	* 4-076-824-01	CUSHION (UPPER) (ASSY) (KDP-65)	
	* 4-076-825-01	CUSHION (LOWER) (ASSY) (KDP-65)	
	* 4-076-830-01	INDIVIDUAL CARTON (KDP-65)	
	* 4-076-831-01	TRAY (KDP-65)	
	* 4-076-834-01	CUSHION (UPPER) (ASSY) (KDP-57)	
	* 4-076-835-01	CUSHION (LOWER) (ASSY) (KDP-57)	
	* 4-076-840-01	INDIVIDUAL CARTON (KDP-57)	
	* 4-076-841-01	TRAY (KDP-57)	
**********			
		REMOTE COMMANDER	
		**********	
	1-476-689-11	REMOTE COMMANDER (RM-Y185)	

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